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Vol. 26.]

1917.

Tuesday, 17th April.

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THE
Australian Official Journal
of Patents.



Notices.

Applications Received, 3590 to 3675.
Commonwealth Proceedings.

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NOTICES.

Public Holiday.

The Patent Office, Melbourne, will be closed on Monday, 23rd April, 1917—Eight Hours Day.

Subscriptions for 1917.

Subscribers are reminded that, to insure continuity in the delivery of the *Australian Official Journal of Patents*, it is necessary that remittances should be paid to the Government Printer, Melbourne.

The annual subscription, 25s., which should be paid as early as possible each year, entitles subscribers to receive (free) the annual volume of Statistics and Indexes for the current year.

NOTICES—*continued.*

WARNING TO THE PUBLIC.

The Public are notified that entries in the *Australian Official Journal of Patents* under the headings :—

Applications with Provisional Specifications Lapsed.

Applications with Complete Specifications Lapsed.

Applications with Complete Specifications (open to public inspection) Lapsed.

Applications in respect of which Complete Specifications have been accepted but on which Letters Patent have not been sealed.

Patents void through non-payment of Renewal Fees.

must not be accepted as final, as under Regulations 7 and 8 of the Patents (Temporary) Regulations 1914 the Minister or the Commissioner may in certain cases defined in the Regulations extend the time prescribed by the *Patents Act* 1903-1909 for doing any act or filing any document.

The Patent Office will furnish, on request accompanied by the prescribed search fee of One Shilling, definite information, so far as possible, as to the position of any particular Application or Patent.

Official Circulation.

The *Australian Official Journal of Patents* is available for free public inspection at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses in Brisbane, Adelaide, Perth, and Hobart on the arrival of the first post after its publication at the Patent Office in Melbourne. Complete files are posted to Government Patent Offices in all parts of the world, and to a large number of Public Libraries and Technical Institutions in the principal cities of Australasia, Great Britain, Europe, America, Africa, and Asia. The *Journal* may also be inspected at the offices of many technical periodicals to which copies are sent in exchange.

Classification and Word Index, 1916.

A revised edition of the Classification of Manufactures and of the Word Index thereto is now ready and on sale at the Government Printing Office, Melbourne, price Two Shillings and sixpence, post free.

COMMONWEALTH.

PROCEEDINGS UNDER THE "PATENTS ACT 1903-1909."

**List of Applications for Letters Patent received from
29th March to 11th April, 1917.**

The abbreviations "Prov." and "Comp." after the numbers indicate respectively that a Provisional or Complete Specification was lodged with the Application.

Thursday, 29th March.

3590. *Comp.* Charles John McCARTHY—
"An improved carburetter for internal combustion engines."

3591. *Prov.* Stephen Henry MANNERS—
"An improved foundation and platform for stacking wheat and other food stuffs."

3592. *Prov.* Henry AGAR—
"An improved waistcoat."

3593. *Prov.* John GRAHAM—
"Improvements in and connected with the straining of wire."

3594. *Comp.* John Bede FEGAN—
"Improvements in mechanically agitated sifters for fine sugar and such like powders."

3595. *Prov.* Archibald BENNET and Thomas Hugh REID—
"Improvements in roller blinds."

3596. *Prov.* James Joseph BYRNE—
"Disinfectant powder."

3597. *Comp.* Ellen HILLS—
"An improved ball and cup furniture castor."

3598. *Comp.* Mary Ann BETTEN—
"Improvements in and relating to grates applicable to cooking ranges and for general purposes."

Friday, 30th March.

3599. *Prov.* John Graeme BALSILLIE—
"Method of obtaining electrical energy from natural sources, and apparatus therefor."

3600. *Prov.* Frank Whiteway BICKFORD—
"Fraud detection vessel and tap therefor."

3601. *Prov.* Frank Whiteway BICKFORD—
"Letter tag label."

3602. *Prov.* Clement BUTCHER, *act. inv.*, and Frank Whiteway BICKFORD, *assignee*—
"Machine for fastening fence netting to its anchor wires."

3603. *Prov.* Edward MARSHALL—
"An improved device attachable to wheels of self propelled vehicles and operatably connected to the latter for hauling purposes."

Saturday, 31st March.

3604. *Prov.* William Henry Rutledge LATIMER, *assignee of* Charles Herbert RILEY, *act. inv.*—

"Improved furrow making and bait dropping attachments for vehicles."

3605. *Prov.* Arthur Georges NESFIELD and Frederick John WALTERS—
"Torpedo pipe scraper."

3606. *Prov.* John Moir HARKNESS—
"Improvements in and relating to the transmitters of telephones and similar instruments."

Applications received, 29th March to 11th April—continued.3607. *Prov.* John Henry HARRISON—

“The telescope brush and window cleaner combined.”

3608. *Prov.* Charles WOODWARD—

“Combination child's cot and cradle.”

3609. John George ROBINSON and THE SUPERHEATER CORPORATION LIMITED.

[Date applied for under International or Intercolonial Arrangements, 31st Mar., 1916, being date of application in Great Britain, No. 4790/16.]

“Improvements in and relating to steam superheaters of the multiple smoke or fire tube type.”

Monday, 2nd April.3610. *Prov.* Victor WILSHIRE—

“Fairy wings.”

3611. *Prov.* George Smith VOWELL—

“Strainer.”

3612. *Prov.* Alexander McNICOL—

“Collapsible combination seat and night commode.”

3613. *Prov.* William Edward SOUTHWELL—

“A retailing measuring device for liquids.”

3614. *Prov.* Ernest GASKELL—

“New system of double entry book-keeping.”

3615. *Prov.* Frederick Andrew PRICE—

“An improved method of and means for separating oats from wheat.”

3616. *Comp.* Walter SIGMONT, *communicatee* of Payton James Henry MOORE, *act. inv.*—

“Method and apparatus for treating grain.”

3617. *Prov.* THE SUBNOUGHT GEARING COMPANY LIMITED, *assignee* of Alfred Arthur QUICK, *act. inv.*—

“An improved snatch block.”

Tuesday, 3rd April.3618. *Comp.* Niels Pedersen WILLMANN—

“An improved manure distributor.”

3619. *Comp.* Herbert Charles COLBURN and Ernest Augustus COLBURN—

“Improvements in or relating to process of and apparatus for separating valuable particles in finely divided ores.”

3620. *Prov.* Frederick Andrew PRICE—

“Improvements in cylindrical machines for separating oats from wheat.”

3621. *Prov.* Alexander FUREY—

“Improved safety guard for rolling stock.”

3622. *Comp.* Arthur GRIFFITH, *communicatee* of Arthur P. CROSBY, *act. inv.*, and William T. PRICE, *assignee*—

“Vapor heater valve.”

3623. *Comp.* Amos HOPE, *sen.*—

“Improved means for use in conjunction with milking machines for cooling milk.”

3624. *Comp.* REFRIGERATOR CAR EQUIPMENT Co., *assignee* of Charles Wesley McCoy, *act. inv.*—

“Process and apparatus for cooling apartments.”

Wednesday, 4th April.3625. *Prov.* John Minnis SHAW—

“A holdfast for venetian blinds, blinds, clothes-lines and the like.”

3626. *Prov.* Robert William GLANVILLE—

“Improvements in cream cans.”

3627. *Prov.* Edward WRIGHT and Horace Gilbert WRIGHT—

“Improved automatically operating wire and metal crimping machine, alike serviceable for kinking the metal reinforcement bars and such like.”

3628. *Prov.* Henry Montague WALKER—

“Improvements in or relating to fireless cookers.”

Applications received, 29th March to 11th April—continued.

3629. *Prov.* Niels NIELSEN—
“Improvements in casement windows, fanlights and the like.”
3630. *Prov.* Harry EASTMAN—
“Improvements in burglar alarms of the detonator type.”
3631. *Comp.* William Christian PAUL—
“Improvements in and relating to lamps.”
3632. *Comp.* THE PERRIN SHOCKER MANUFACTURING COMPANY LIMITED, *assignee of* William Humphry PERRIN, *act. inv.*—
“Improvements in sheaf shockers.”
3633. *Prov.* Edward James CORNISH—
“Improved apparatus for displaying the registered numbers of motor cars, and other vehicles.”
- Thursday, 5th April.**
3634. James LOWE.
[Date applied for under Intercolonial Arrangements, 13th Sept., 1916, being date of application in New Zealand, No. 37,892.]
“Improved automatic means for controlling the gas supply to gas heated water heaters.”
3635. *Prov.* James Cranston NORTHEY—
“A combined sword and bomb thrower.”
3636. *Comp.* AMERICAN SEEDTAPE COMPANY, INCORPORATED, *assignee of* Edward Elisha GRAY, John W. THOMPSON, and Leonard H. RHOADS, *act. invs.*—
“Improvements in seed packages.”
3637. Ralph P. CLARKSON.
[Date applied for under International or Intercolonial Arrangements, 19th June, 1916, being date of application in United States of America, Serial No. 104,359/16.]
“Improvements in hydraulic current motors.”
3638. Algernon Clement FULLER.
[Date applied for under International or Intercolonial Arrangements, 16th Feb., 1916, being date of application in Great Britain, No. 2339/16.]
“Improvements in telegraphy and apparatus therefor.”
3639. *Prov.* Gustave A. GILBERTSON—
“Power transmitting device.”
3640. *Prov.* George Luly CANT—
“An improved light diffusing screen for electric and other lights.”
3641. *Prov.* Hugh Victor McKAY, *assignee of* Ralph McKAY, *act. inv.*—
“An improved adjustable tooth comb for strippers and harvesters.”
3642. *Comp.* Bedlington BODYCOMB, *communicatee of* SOCIETY OF CHEMICAL INDUSTRY IN BASLE, *assignee of* Kurt KOTTMANN, *act. inv.*—
“Metal combinations of albumin.”
3643. *Prov.* CLARENCE H. SMITH LIMITED, *assignee of* Clarence Glen SMITH, *act. inv.*—
“Improvements in cultivators.”
3644. *Comp.* Elizabeth Ferguson HUME—
“An improved corset.”
3645. *Prov.* John Henry DAVIES, *act. inv.*, *assignee of* Arthur Albert WALTERS, *act. inv.*—
“Improvements in milk releasers for milking machines.”
3646. *Prov.* John Henry DAVIES—
“Improvements in claws for milking machines.”
3647. *Prov.* John Henry DAVIES—
“Improvements in milking sheds for cows.”
3648. *Prov.* John Henry DAVIES—
“Improvements connected with the piping of cow milking apparatus.”
3649. *Comp.* Clayton LAING—
“Improvements in photometer.”
3650. *Comp.* Jacob GUSTAFSON—
“Improvements in or relating to hydraulic power producing plants.”
3651. *Comp.* Domenico BRUNERO—
“Improvements in and relating to spinning machines.”
3652. *Prov.* Annie Alice PETERSON—
“Babies' head protector.”

Applications received, 29th March to 11th April—continued.

3653. *Comp.* UCAN SPECIALTIES CORPORATION, *assignee of act. inv.*—

"Improvements in hair cutting devices."

3654. Robert Fletcher WHITNEY.

[Date applied for under International or Intercolonial Arrangements, 7th Aug., 1916, being date of application in United States of America, Serial No. 113,422/16.]

"Improvements in bladed cylinders for hide and leather working machinery."

3655. *Comp.* Andrew RASMUSSEN—

"Improvements in power hacksaw machines."

3656. *Prov.* William HUDSON and Arthur William BEAUCHAMP—

"Improvements in devices for operating and controlling visual railway and like signals."

3657. *Comp.* Anton Iver SANDBO—

"Starting device for internal combustion engines."

3658. *Comp.* Ashley Clayton BENNETT—

"Improvements in carburetors."

6th to 10th April.*Public Holidays.***Wednesday, 11th April.**

3659. *Prov.* Francis FOGARTY—

"Direct draught reaper harvester."

3660. *Comp.* Owen BLACKET and Cyril BLACKET—

"Mineral separating machine."

3661. *Prov.* Ernest Herbert MEISSNER and Herbert George MARSDEN—

"An improved combined oil can and torch."

3662. *Prov.* Victor William BRAME—

"An adjustable attachment for lawn mower."

3663. *Comp.* Mary PURSER, *nominee of John PURSER, act. inv.*—

"An improved wheat pickler."

3664. *Prov.* Albert Joseph LEAVER and Edwin Richard Thomas CURRELL—

"A device or tool to facilitate the attachment of wire netting to a supporting wire as in fencing."

3665. *Prov.* Arthur COWELL—

"Improved device for advertising and reducing cost of envelopes and stationery attached or combined with writing paper printed matter and the like."

3666. *Prov.* John HOGARTH—

"An improved scraper for cleaning the wheels and discs of agricultural implements."

3667. William Christian PAUL.

[Date applied for under International or Intercolonial Arrangements, 16th Mar., 1916, being date of application in United States of America, No. 1,211,750.]

"Improvements in and relating to lamps."

3668. *Prov.* Charles WALLIS—

"Tidy stand."

3669. *Prov.* Frank William CUTLACK—

"A ratchet press for packing and pressing fruits and or similar substances into cases."

3670. *Prov.* Alfred Ernest ASPINALL—

"An improved household utensil for containing bread and other comestibles."

3671. *Prov.* George BYRNE—

"Revolving wheel of self-contained pressure."

3672. *Prov.* Frederick William UREN—

"A device for automatically locking the doors of switchboards and the like."

3673. SOCIÉTÉ DU CARBURATEUR ZÉNITH.

[Date applied for under International or Intercolonial Arrangements, 4th Dec., 1913, being date of application in France, No. 474,526.]

"Improvements in carbureters for explosion motors."

3674. *Comp.* Edward Bradford BLAKELY—

"Improvements in internal combustion engines."

3675. *Comp.* Frederick Furgason TAYLOR—

"Means or devices for facilitating the keeping of accounts."

Provisional Specifications Accepted.

*Names in parentheses indicate actual inventors, &c., who are not applicants.
Italics indicate that some amendment has been made.*

1916.

2035. Stillman, E. J. *An improved fish trap.*

1917.

2949. Wilkinson, F. A., & Bourke, D. H. *Improvements in coin freed slot machines for recording the number of coins introduced.*
3008. Plunket, J. B. M. Printing upon glass.
3026. Collits, J. *A preparation for the prevention and cure of blow-fly in sheep and for similar purposes.*
3064. Wilson, Marion T. *A preparation for the cure of rheumatism.*
3134. Sivyver, F. J. Coke manufacture.
3142. Stringer, Olive, assignee of Kotzebue, N., act. inv. *An improved portable machine for pulling trees and clearing land.*
3181. McLeod, A. *An improved non refilling bottle.*
3184. Spence, A. *Improvements in and relating to covers for pianos and such like musical instruments.*
3190. Minerals Separation and De Bavay's Processes Australia Pty. Ltd. (Martin, R. B.). Ore concentration.
3258. Fieldgate, W. Trimming and threading collapsible metal tubes.
3275. Renwick, W. H. Interlocking drawers.
3283. McMullen, P. C. J. Force feed lubricator.
3296. Hogan, J. *An improved scoring board for billiards and other games.*
3363. Hatchett, T., & Sandland, A. W. Broom scraper.
3381. Aurisch, F. A. Pneumatic flush valves.
3384. Heath, G. W. Post-hole digger.
3391. Powers, H. S. Motor-car wheels.
3392. Lynn, J. P. Ticket printing and totalizing machine.
3395. Duncalfe, A. G. Reinforced partition block.
3397. Wiseman, Gertrude L. Mail bag seal locks.
3401. Richter, O. H. A. Carriage wheels for change of gauge.
3402. Karppinen, K., Garrett, T., & Ure, P. J. Shunting excessive electrical potentials.
3404. Ryan, C. Fastening boots.
3410. Park, A. V. Discharge of liquids.
3411. Charley, J. J. & W. G. Vehicle wheels and tyres.
3421. King, A. E. Copy holder for typewriters.
3424. Watson, Ferguson & Co. Ltd. (Walter, A. T.). Loose leaf card holder.
3431. Brown, W. Oil-engine vaporizers.
3438. Barclay, A. (Figgins, A.). Manufacturing leather.
3462. Spaul, G. T. *An appliance for examining hand writing.*
3473. Crump, J. B. Potato planters.
3483. Park, R. P. Separating minerals from ores.
3489. Farran, A. Portable cooking stove.
3492. Davies, J. C. Gas-producer.
3497. Atkinson, T. Compress for animals.
3498. Lefroy, E. H. B. Road repairing machine.
3505. Cooper, C. Green-feed cutters.
3508. Chisler, J. C. Pressing hay.
3513. Palmer, G. D. Mattress connexions.
3517. Burke, N. I. D. Adhesive composition.
3518. Rae, E. C. Horses' bridles.
3523. Davison, W. M., & Riddell, G. C. Grate sintering machines.
3538. Moss, F. E. Tobacco pipes.
3539. Moss, F. E. Separating solids and fluids.

Complete Specifications lodged after Provisional Specifications.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. The date following the title is that on which the Complete Specification was lodged.

1916.

1172. Andrew Herbert BYRON and Urbane Patterson BROOME—
 "An improved reaper harvesting machine." 31st Mar., 1917.
1183. Robert McMULLAN—
 "Improvements in connection with suction gas plants." 30th Mar., 1917.
1185. Alec SUTTON and William Frederick SHEPHERD—
 "Improvements in certain descriptions of domestic incubators." 29th Mar., 1917.
1211. Gustav Wilhelm DALITZ and Francis WILLIAMS—
 "An improved evaporator for drying fruit." 5th Apr., 1917.
1222. George Charles MAAS and William YOUNG—
 "Improved bottle stopper." 5th Apr., 1917.
1302. William George CLAYTON—
 "An improved device for facilitating the starting of, and for economising the fuel used in, internal combustion engines." 3rd Apr., 1917.
1377. William McLEOD—
 "An improved tile for roofs and walls of buildings." 29th Mar., 1917.
1387. Hugh Victor McKAY—
 "Improvements in and relating to tractor harvesters." 29th Mar., 1917.
1439. Joseph Ross—
 "A woodworker's hand machine for sawing, planing moulding and sandpapering purposes." 5th Apr., 1917.
1497. Victor NIGHTINGALL—
 "An adjustable transformer for use in the operating of 'Coolidge' or the like X ray tubes." 11th Apr., 1917.
1512. Frank Whiteway BICKFORD—
 "Improved gate hinge." 11th Apr., 1917.
1585. [1755.] Charles Stuart Cox—
 "Improved joint for removably joining a wood or other upright to a lateral member especially applicable to bedsteads and the like." 30th Mar., 1917.
1841. Norman Low—
 "Improved means for increasing the grip and preventing the slip of wheels of motor cars and other road vehicles." 11th Apr., 1917.
1973. Martin ANDERSON—
 "An improved process for expanding and smoothing bores in metal objects such as a gun barrel." 4th Apr., 1917.
2251. Walter PERKS—
 "Improved windmill head and pump jack." 30th Mar., 1917.
2355. JAMES MARTIN AND COMPANY LIMITED, assignee of John Francis McNEILL, act. inv.—
 "Improvements in reaper thresher machines." 2nd Apr., 1917.
2557. George Brownlow CLERK—
 "An improved door contact for elevators and the like." 3rd Apr., 1917.

1917.

2971. QUEENSLAND BEDSTEAD COMPANY LIMITED, assignee of Harry PURCELL and Archibald WATSON, act. invs.—
 "A baby's cot." 30th Mar., 1917.
3404. Charles RYAN—
 "Fastening device for boots, shoes, leggings and the like." 5th Apr., 1917.

Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn.

Names in parentheses indicate actual inventors, &c., who are not applicants.

1916.

Lapsed.

- | | | |
|--------------------------|----------------------------|--------------------------|
| 1116. Morris, J. | 1136. Pitt, J., & Muir, J. | 1165. Allinson, F. W., & |
| 1119. Induni, J. | K., jun. | Leadbeater, Violet |
| 1121. Reed, W. A. E. | 1137. Baity, D. R. | 1166. Boll, W. H. P. |
| 1123. van Engelen, R. | 1143. Christian, H. C., & | 1167. Benwell, W. C. |
| 1124. Baker, Florence I. | Neil, A. | 1168. Redman, S. R. & |
| 1126. Ashdown, C. H. A., | 1144. Cossor, S. N. J. | Ellen M. |
| trading as The C. | 1147. Avery, D. | 1169. Riddell, H. |
| Ashdown Carriage | 1149. Ellis, J. S. E. | 1170. Sanders, A. H. |
| Co. | 1151. McCormick, H. | 1174. Gadsden, J. |
| 1129. Avery, D. | 1153. Warneck, H. McG. | 1176. McGee, F. D. |
| 1130. James, J. R. | 1157. Parker, W. J. | 1177. Green, J. |
| 1131. Niven, W. | 1158. Brown, E. M. | 1178. Shreeve, R. V. |
| 1132. Goulding, W. M. | 1161. Scammell, L. R. | 1179. Brown, J. |
| 1133. Withers, W. H. V. | 1163. Carpenter, E. W. | 1184. Henderson, E. LeB. |
| 1135. Larkins, M. H., & | 1164. Rooney, J. W. | |
| Tout, L. G. D. F. | | |

Applications with Complete Specifications (not open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. Names in parentheses indicate actual inventors, &c., who are not applicants.

1915.

Lapsed.

- 18,240. Stevens, H. S.

Applications for Patents dated other than Date of Lodgment.**1916.**

2035. Stillman, E. J.

[Post-dated to 8th Jan., 1917.]

1917.

3026. Collits, J.

[Post-dated to 12th Feb., 1917.]

3142. Stringer, O. (Kotzebue, N.).

[Post-dated to 6th Mar., 1917.]

**Lapsed Applications subsequently proceeded with under
Patents (Temporary) Regulations, 1914.***Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets***1915.**

17,219. MARTIN, W. M.

[Date applied for under International or
Intercolonial Arrangements, 27th June,
1914, being date of application in Great
Britain, No. 15,442/14.]"Improved apparatus for the water con-
centration of ores, slimes and the
like."[Advertised as Lapsed in *Journal* of 5th
Dec., 1916.]

Specifications open to Public Inspection before Acceptance,

UNDER SECS. 121 AND 122, "PATENTS ACT 1903-1909."

The specifications may be inspected at the Patent Office, Melbourne, on payment of the search fee of One Shilling in respect of each Application.

Typed copies of specifications will be supplied at Sixpence per 100 words (minimum charge, One Shilling).

Sun prints of drawings will be supplied at One Shilling per foolscap folio sheet (8 inches x 13 inches).

Fees must be tendered in cash or postal note or in money order, payable to the Commissioner of Patents, Melbourne.

1915.

17,219. William Morley MARTIN.

[Date applied for under International or Intercolonial Arrangements, 27th June, 1914, being date of application in Great Britain, No. 15,442/14.]

"Improved apparatus for the water concentration of ores, slimes and the like."

1916.

2902. Lepton Dobson SUNDERLAND and SUNDERLAND AND COMPANY LIMITED.

[Date applied for under International or Intercolonial Arrangements, 7th April, 1916, being date of application in Great Britain, No. 100,988/16.]

"Improvements in roof glazing."

1917.

3532. John Edward GRANT and THE MORGAN CRUCIBLE COMPANY LIMITED.

[Date applied for under International or Intercolonial Arrangements, 31st Mar., 1916, being date of application in Great Britain, No. 4775/16.]

"Improvements in or connected with carbon brushes for dynamo-electric machines."

3569. Bertie Charles EDWARDS.

[Date applied for under International or Intercolonial Arrangements, 30th Mar., 1916, being date of application in Great Britain, No. 100,774/16.]

"Improvements relating to envelopes."



Complete Specifications Accepted.

OPEN TO PUBLIC INSPECTION AT THE PATENT OFFICE, MELBOURNE.

SEARCH OR INSPECTION FEE—ONE SHILLING EACH.

Notice is hereby given that all persons interested in opposing the grant of a Patent on any one of the following applications may, at any time within three months from the date of this Journal, or within such further time not exceeding one month as may on application made within such three months be allowed, give notice at the Patent Office, in Form G, which must be accompanied by the fee of £2, tendered in cash or postal note or in money order.

Within fourteen days after the lodging of the notice of opposition, or within such further time as the Commissioner allows, the opponent shall leave at the Patent Office declarations and copies thereof in support of his opposition, and forthwith after the receipt thereof the copies shall be transmitted by the Commissioner to the applicant.

Failure by an opponent to lodge declarations shall be deemed intentional abandonment of the opposition.

1916.

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| <p>5. Aphorpe. <i>Improvements in the construction of step ladders, and the like.</i></p> <p>677. Pope. Water sprinkler.</p> <p>683. White. Cool safe.</p> <p>684. Bagot. Press button.</p> <p>719. Jackson. Domestic boiler.</p> <p>725. Rayson. Cool storage air ducts.</p> <p>841. Echberg, Cone, & Dureau. Glazing roofing tiles.</p> <p>842. Echberg, Cone, & Dureau. Cement mixer.</p> <p>844. The Wireless Hinge Mfg. Co. Ltd. (Berry). Tobacco tin.</p> <p>910. Lucy. Steam superheaters.</p> <p>947. Stevens & Baumann. Condensed milk.</p> <p>1101. Kinch. Closet seat lid.</p> <p>1142. Svenska Turbinfabriks Aktiebolaget Ljungström (Wiberg). <i>Improvements in radial turbines.</i></p> <p>1217. Pippard. Leaf spring shackle.</p> <p>1279. Air Turbine Co. of America (Clade). Windmill.</p> <p>1293. Johnsen & Johnsen. Fish plate.</p> <p>1637. Wigginton (Farron). <i>An improved support for temporary binders loose leaf holders and the like.</i></p> <p>1638. Lord. Marking tennis court lines.</p> <p>1683. The Kentucky Tobacco Product Co. (Newborne & McConnell). Estimating nicotine.</p> | <p>1832. Blaney. Motor street sweeper.</p> <p>2036. Symes. <i>Combined hand-piece receiver and calling device for automatic telephones.</i></p> <p>2167. Nordstrom. Lubricated plug-valve.</p> <p>2242. Roberts. Paper feed guide.</p> <p>2246. Dyer. Extinguishing fires.</p> <p>2266. Maas. Electric conduit.</p> <p>2524. Aske Automatic Voltage Regulator Co. (Aske). Magneto lighting system.</p> <p>2535. Braun. Felting hair.</p> <p>2582. Moffat. Electric ore reduction furnace.</p> <p>2727. Comstock. Projection apparatus.</p> <p>2774. Woods. <i>Improvements in or relating to abdominal supports and the like.</i></p> <p>2777. Bartel. Field gate.</p> <p>2809. Kanner. Razor strop.</p> <p>2862. Combination Machine Co. (Peterson). Tobacco plug.</p> <p>2870. Giroux. Stage illusion.</p> <p>2872. Bowers. Conveyor belt.</p> <p>2892. Knight. Horseshoe nail.</p> |
|---|---|

1917.

- | | |
|---|--|
| <p>3126. Smith. Flushing cistern.</p> <p>3234. Auger. Artificial knee joint.</p> <p>3246. Pearsall. Veil clasp.</p> | |
|---|--|

NOTE.—THE SURNAMES IN PARENTHESES INDICATE ACTUAL INVENTORS (OR OTHER INTERESTED PARTIES) WHO ARE NOT APPLICANTS. ITALICS INDICATE THAT SOME AMENDMENT HAS BEEN MADE.

Further information of the inventions in the above Specifications is given in the following Illustrated Notes, and the full particulars of names, addresses, and occupation or calling of persons concerned in each application are stated in the Printed Specifications.

Printed copies of the above Specifications may now be ordered from the Government Printer, Melbourne, price One Shilling each, post free for cash or postal note, the copies will be posted from Melbourne two weeks after the date of this Journal, when copies will also be forwarded to the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart, for sale on demand.

A list of Australian and Foreign Offices and Libraries at which the Printed Specifications are placed for free public inspection is given in the first Journal of each quarter.

Illustrated Notes

TO THE FOREGOING ACCEPTED COMPLETE SPECIFICATIONS.

The class numbers refer to similar inventions comprised in the Classified Subject Matter Indexes.

1916.

5. 4 Jan. J. APTHORPE, N.S. Wales.

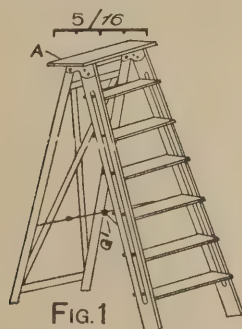
Class 45.8.

Step-ladder.

A ladder in which the front and back legs are mounted on a sheet-metal stamping which also supports the top plate.

The ends of each step are provided with dovetails, which engage the centre slot and each side of the front legs.

Hinged diagonal stays G^1 connect the legs.



7 figures, 3 claims.

677. 31 Mar. H. POPE, South Aust.

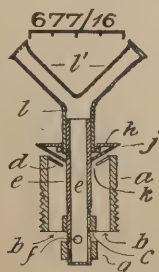
Sec. 63A. Including cognate No. 678/16.

Class 74.9.

Water Sprinkler.

A sprinkler in which a spray from rotary arms P is combined with a spray issuing from an annular opening j .

The union a is coupled to the water supply and a nut g is provided to regulate the supply of water passing through the hole f to the arms P .



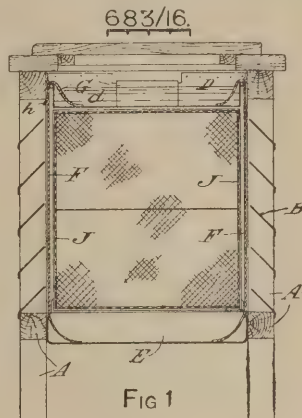
5 figures, 5 claims.

683. 3 Apr. G. P. H. WHITE, N.S.W.

Class 29.3.

Cool Safe.

A moist fabric safe in which the outer part consists of panels of louvers B . Strips of hessian F are secured inside and are kept damp by means of wicks G from the upper tank D . The inner safe J consists of a perforated zinc skeleton provided with a door. A door is provided in the front louver panel.



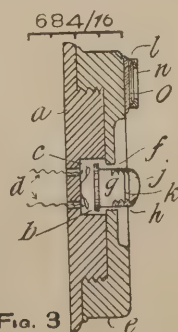
2 figures, 3 claims.

684. 3 Apr. E. D. A. BAGOT, S.A.

Class 04.2.

Press Button.

To indicate the position of an electric bell, push a plate o bearing the word "Press" in luminous paint is mounted on the cover e , and the button g has a luminous disk k protected by a transparent dome j .



3 figures, 3 claims.

Illustrated Notes—continued.**719.** 5 Apr. J. D. JACKSON, N.S.W.

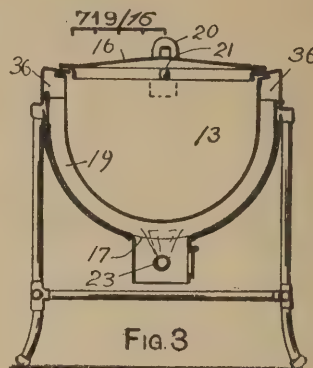
Sec. 63A. Including cognate No. 862/16.

Class 24.5.**Domestic Boiler.**

To ensure rapid heating, the boiler in the form of a trough is surrounded by an outer jacket, ribs on the boiler or casing forming flues for heated gases arising from the burner.

The ribs 17 form flues 19 which communicate with the side flues 36 and chimney 20. Baffles may be set in the flues, which may be surrounded by a water jacket, communicating with the boiler.

In a modification the boiler is hemispherical. In a further modification water inlets are inserted in the base of the jacket and boiler, and hot water issues from the top of the boiler.



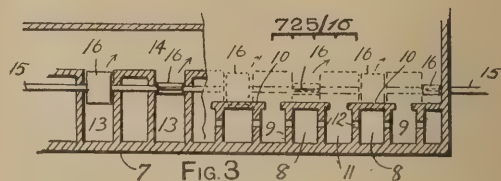
10 figures, 3 claims.

725. 6 Apr. R. RAYSON, Victoria.**Class 29.7.****Cool Storage Air Ducts.**

To prevent the choking of the gratings the withdrawal ducts are arranged above the floor and connected singly or in groups to valved wall boxes communicating with the main duct.

The ducts 8 have perforated side members 9 and solid overlapping top members 10, and connect at one or both ends with the wall boxes 13.

A rotating shaft 15 carries plate valves 16 which alternately open and close communication between successive wall boxes and the duct 14.

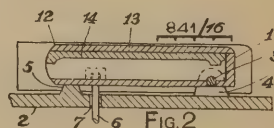


5 figures, 4 claims.

841. 20 Apr. A. F. ECHBERG, *act. inv.*,
W. C. CONE and D. H. DUREAU, *assignees*,
Victoria.

Classes 70.1; 19.6.**Glazing Roofing Tiles.**

To permit the rounded edges to be dusted with glazing powder before removal from the mould, the mould box is mounted above the table by means of the pivot 3 and block 5. The box is tilted by the treadle-connected rod 6.



3 figures, 4 claims.

Illustrated Notes—continued.

842. 20 Apr. A. F. ECHBERG, *act. inv.*, W. C. CONE and D. H. DUREAU, *assignees*, Victoria.

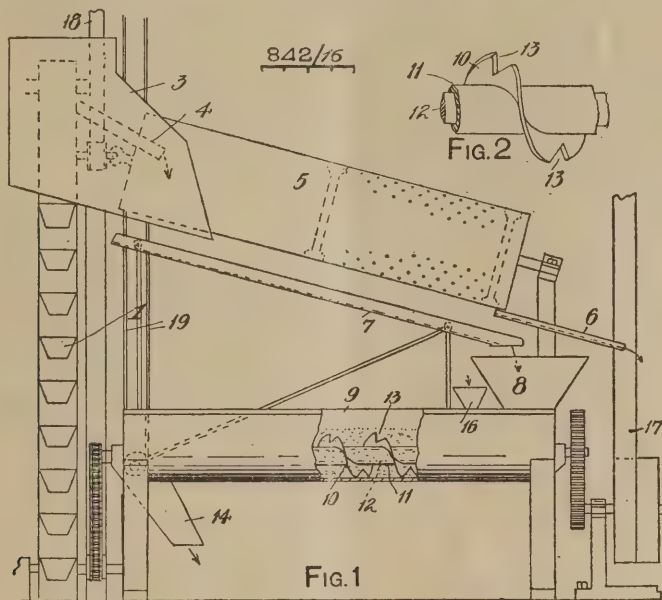
Class 10.8.**Cement Mixer.**

A mixing machine which comprises an inclined rotatable cylindrical screen, a shaking table, and a mixing trough.

Sand is delivered by the bucket elevator to the rotary screen 5. The graded material falls on the shaking table 7 and is fed

into the mixing trough 9. Cement is delivered through the hopper 16 into the trough.

The screw 10 is mounted on a collar 11 on the shaft 12 and is provided with angular notches 13.



2 figures, 3 claims.

844. 20 Apr. THE WIRELESS HINGE MANUFACTURING CO. LTD., *assignee of* G. W. BERRY, *act. inv.*, New South Wales.

Classes 57.5; 73.8.**Tobacco Tin.**

To form interlocking wireless hinges for sheet-metal boxes, the lid and body portions are automatically fed from shoots 49 to pairs of dies.

The lids and bodies are fed by push-rods to the cutting dies 32, 32¹, and 33, 33¹ which form the bulbed tongues 173 and semi-tubular portions 147. The cam 188 then operates the bell-crank 185 to position the

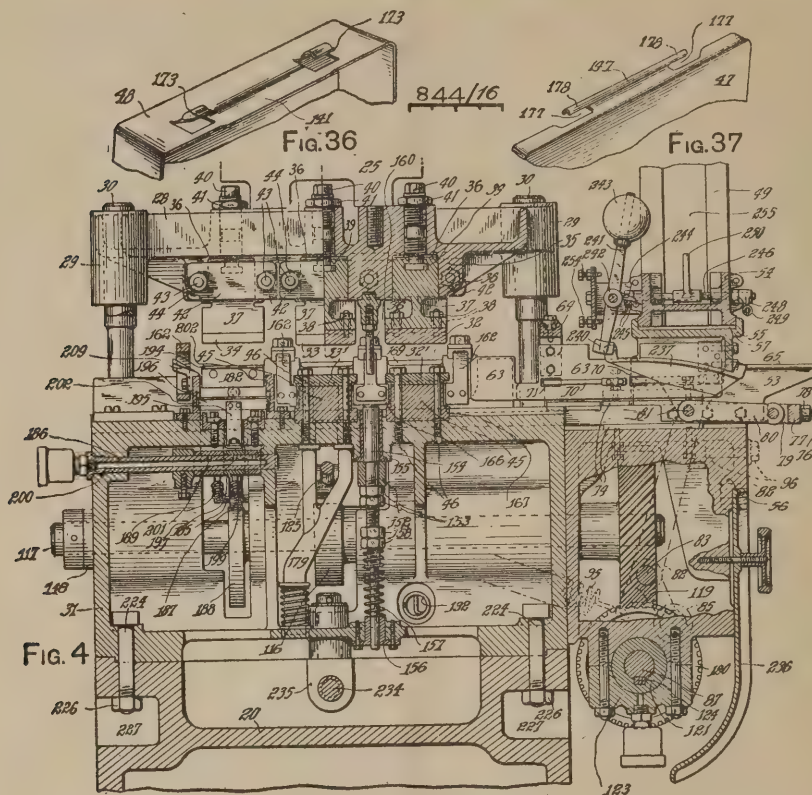
lid on the body, and the die 34 completes the hinging operation.

The tin is passed down a shoot, the walls of which are curved to close the lid and are slotted to eject incomplete receptacles.

The feed shoots 49 are provided with automatic cut-off mechanism, and are slotted to eject wrongly positioned lids and bodies.

[Illustration next page.

Illustrated Notes—continued.



48 figures, 42 claims.

910. 3 May. E. E. Lucy, N.S.W.

Class 63.2.

Steam Superheaters.

To enable the superheater tubes of locomotive and other boilers to be readily closed in case of accident and to render them interchangeable into any of the rows of fire-tubes, the tubes are connected to a series of vertical collectors which are bolted to the steam header.

The collector casting 7 is divided by a vertical partition to form a passage 9 for the saturated steam and a passage 10 for the superheated steam. The steam tubes 11 project from each flue-tube 12, and are provided with screw plugs 15 to permit of ready access.

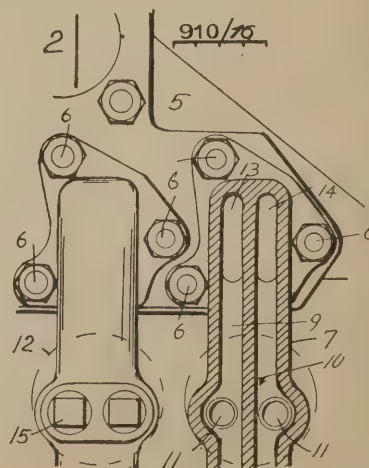


FIG. 1

3 figures, 3 claims.

Illustrated Notes—continued.

947. 5 May. C. S. STEVENS and C. A. BAUMANN, Wis., United States of America.

Class 36.4.

Condensed Milk.

To produce a stable milk 90% of the original butter fat is removed from plain milk for churning and is replaced by vegetable or other fat. The milk is then condensed in the ordinary way.

No drawing, 2 claims.

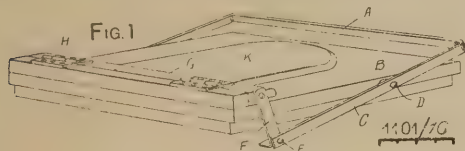
1101. 26 May. G. E. KINCH, N.S.W.

Class 86.3.

Closet Seat Lid.

To open a gravity closing seat lid a press-bar A pivoted to the seat panel is connected by links F to the hinged plate G.

In a modification a non-reversing lid is pivoted on arms which project from the plate G.



3 figures, 2 claims.

1142. 30 May. SVENSKA TURBINFABRIKS AKTIEBOLAGET LJUNGSTRÖM, assignee of O. A. WIBERG, act. inv., Sweden.

Class 67.1.

Radial Flow Turbine.

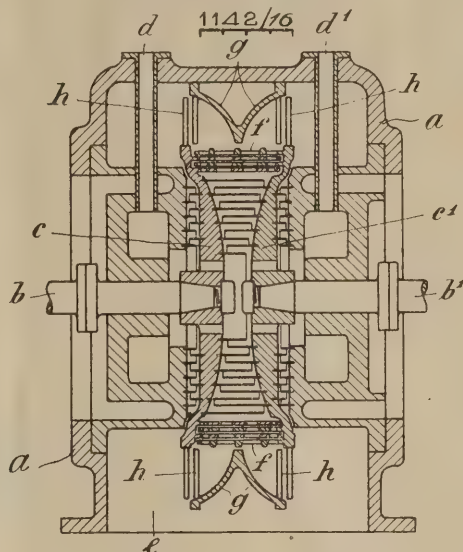
To increase the efficiency of radial flow turbines, which have blade disks rotating in opposite directions, one or more rings of additional blades are radially mounted on the peripheries.

The disks c, c' rotate in opposite directions and are provided with rings of blades f

C.4475.—2

which project in an axial direction. The steam exhausting from the axial blading is directed to the radial blades h by the deflector g on which is mounted the co-operating fixed guide blading.

The steam is admitted through the inlets d and escapes through the outlet e.



1 figure, 2 claims.

1217. 8 June. C. J. PIPPARD, Victoria.

Class 96.5.

Leaf Spring Shackle.

To take up the side play between the leaf springs and the shackle plates without jacking up the vehicle the side plates are provided with projecting pins the ends of which are held in contact by a central bolt.

The pins 9 which carry the spring-eyes 11 are clamped by the central bolt 5 which may be provided with a distance piece. To take up slack the nut 7 is removed and the ends of the pins filed.

A channel 13 with a cross-passage 14 is bored through one pin and communicates with the grease-cup 12.

[Continued next page.]

Illustrated Notes—continued.

In a modification the bolt 5 passes through central bosses each of which is integral with a side plate.

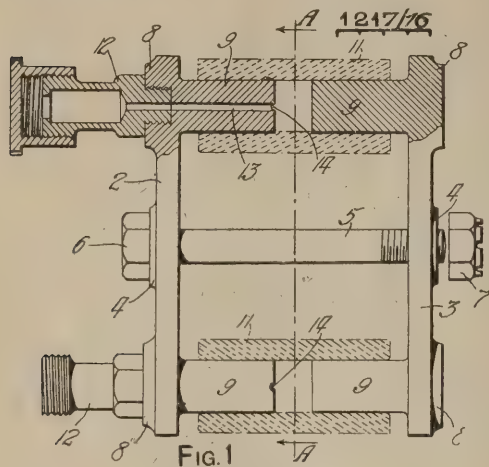


FIG. 1
4 figures, 8 claims.

1279. 16 June. AIR TURBINE COMPANY OF AMERICA, assignee of R. CLADE, New Jersey, United States of America.

Class 90.7.

Windmill.

A cross-flow windmill in which the vanes are connected at the centres to an upper flexible ring while extension lugs are coupled to a lower flexible ring, the feathering being controlled by regulating the eccentricity of the lower ring.

The vanes 5 are mounted between rims 2 and have lugs 6 connected to a flexible-link ring 9 by wire ropes 8, the central lugs 140 being coupled by ropes 130 to an upper flexible ring 120 which supports cone-shaped brackets 14 mounted concentrically on the shaft 1. On raising the ring 120 the brackets 14 determine the degree of eccentricity given to the ring 9 and consequently regulate the degree of feathering.

In a modification the conical brackets are raised by a centrifugal governor having a regulating spring-catch.

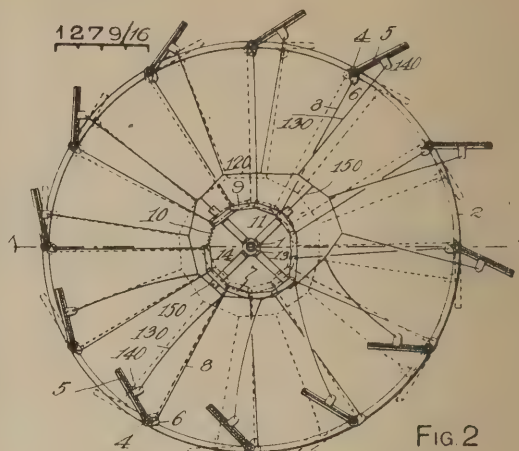


FIG. 2
10 figures, 11 claims.

1293. 19 June. A. J. and H. E. JOHNSON, South Africa.

Date applied for under International or Intercolonial Arrangements, 16th July, 1915, Great Britain, No. 10,366/15.

Class 98.1.

Fish Plate.

To ensure a tight grip on the head and foot of a rail or girder the fish plate is adapted to bear against the feet and heads of the rails on one side while the projections through slots in the web bear on the feet on the other side and are locked by means of a tapering key which bears against the heads.

The surfaces *g*, *h* and *m* are formed to grip the head and foot, and the projections *k* have inclined upper surfaces to enable the key *n* to have a wedging action when driven home. The end of the key is bent over to prevent loosening.

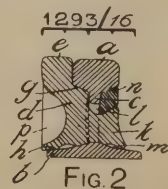


FIG. 2
5 figures, 2 claims.

Illustrated Notes—continued.

1637. 27 July. G. P. WIGGINTON, assignee of G. FARRON, act. inv., Michigan, United States of America.

Classes 48.8; 49.1.

Loose-leaf Support.

To support loose-leaf books and the like, holders 7 and 8, on which covers 1 connected by binding strips 2 are adapted to lie, are mounted on a base 9.

Each holder has side and end members oppositely inclined to each other, the angle between the side member 10 and the end

11 being acute to facilitate handling of the sheets 3. The side 12 and end 13 are at right angles to facilitate the alining of the sheets by the aid of guides 16. The ends 11 and 13 are slotted to receive the binding strips 2, and the support is adjusted by means of the slotted arms 18.

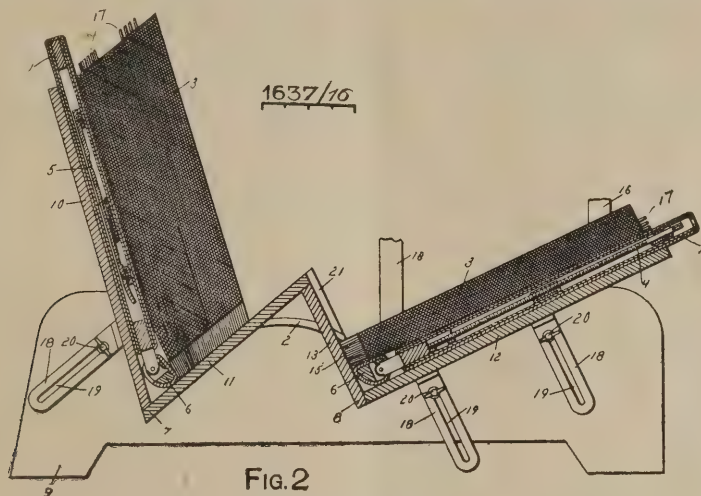


Fig. 2

3 figures, 8 claims.

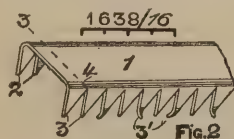
1638. 27 July. F. W. LORD, New York, United States of America.

Class 53.2.

Marking Tennis Court Lines.

To mark the lines of a tennis court, &c., a flexible metal strip 1, adapted to be rolled up for transport, is provided with teeth 2 and 3 which are forced into the ground. The strip is roughened by sifting sand on the painted surface or by cross-cutting the shaping dies.

The corners may be formed, without cutting, by the use of a tool having triangular blades.



12 figures, 7 claims.

1683. 31 July. THE KENTUCKY TOBACCO PRODUCT CO., assignee of R. G. NEWBORN and H. K. McCONNELL, act. invs., Kentucky, United States of America.

Classes 09.6; 87.1.

Estimating Nicotine.

To estimate the amount of nicotine in an animal dip by means of simple apparatus the extraneous matter is precipitated by a basic acetate of lead and the filtrate rendered slightly acid with hydrochloric acid. A standard solution of silico-tungstic acid is then added in small quantities to the known volume of the dip, the solution being tested after each addition, till no further precipitate is formed, by filtering off a small quantity and adding a drop of the acid.

No drawing, 6 claims.

Illustrated Notes—continued.**1832.** 18 Aug. W. T. BLANEY, Canada.

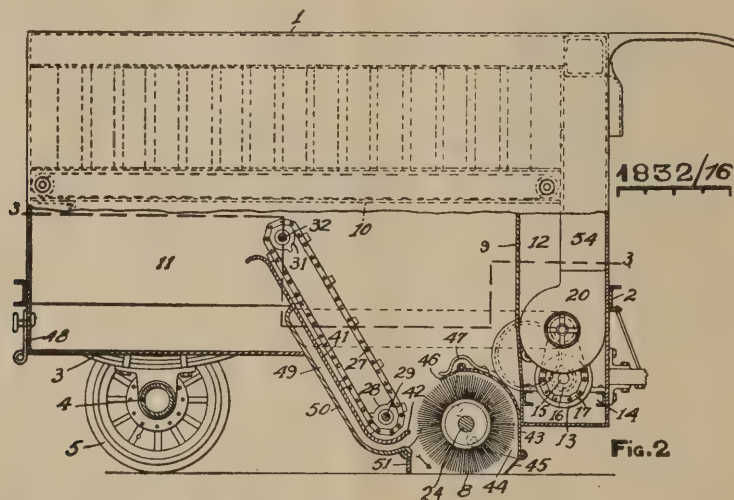
Date applied for under International or Intercolonial Arrangements, 20th Aug., 1915, United States of America, Serial No. 46,430/15.

Class 86.5.**Motor Street Sweeper.**

To enable a single rotary brush to clear the gutter near the kerb the gearing is arranged on one side only of the sweeper. An elevator discharges the dirt in a collecting chamber, and a suction fan is provided to prevent the escape of dust.

The bearings for the brush-shaft 24 are mounted to slide in curved guides which are radial to the driving-shaft. The elevator 27 and the brush 8 are rotated in opposite

directions by sprocket-chains gearing with the shaft 15. An exhaust fan 20 draws the fine dust from the suction passage 49 and delivers it through a filter to the collecting chamber 11. A wiping strip 46, which is yieldingly held by the leaf-springs 47, releases the bristles to fling the dirt from the brush. The released dirt is deposited on the inclined table 41, and is delivered into the chamber 11 by the elevator 27.



6 figures, 7 claims.

2036. 11 Sept. H. SYMES, New South Wales.**Class 05.6.****Automatic Telephone.**

A combined receiver and transmitter hand combination which is fitted with an impulse transmitter having a pair of con-

tacts by which the receiver is automatically cut out of circuit during transmission of calling impulses.

[Continued next page.]

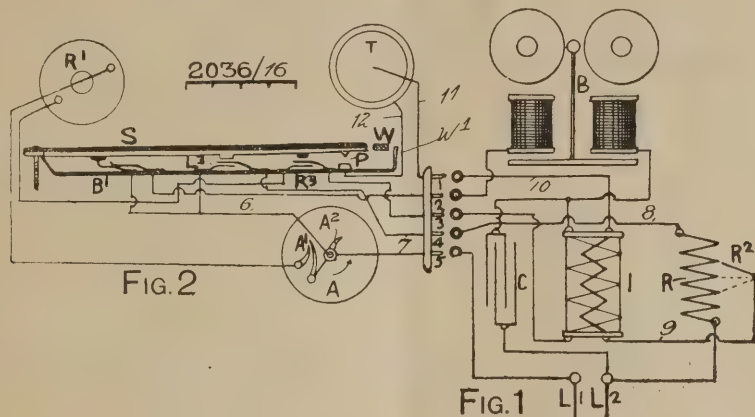
Illustrated Notes—continued.

A switch *S* fitted to the hand-piece controls contacts *B*¹ by which the bell circuit is broken, a contact *L*³ leading to the line circuit *L*¹, and contacts *R*³ and *P* connected with the receiver *R*¹ and transmitter *T*.

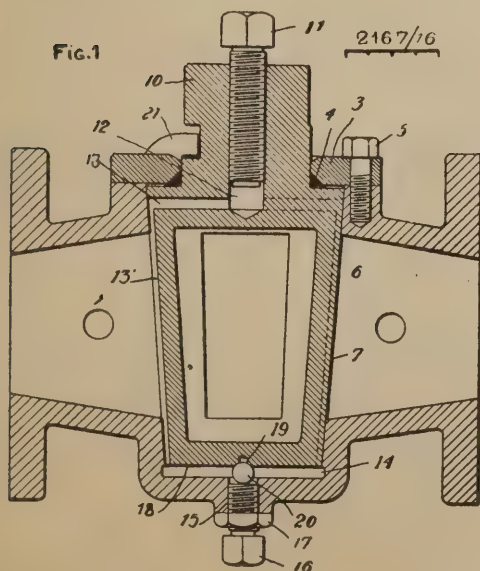
The calling device *A*, by which impulses are transmitted to the calling line, is mounted at the rear of the transmitter *T*. A

rheostat *R* with an adjustable contact *R*² is provided for varying the voltage as required.

A sliding weight *W* passes automatically over the end of switch *S* when the hand-set is tilted forward enabling the user to converse with others in the room without being overheard.



4 figures, 6 claims.



2167. 25 Sept. S. J. NORDSTROM, Mexico.

Classes 74.7; 60.9.

Lubricated Plug-valve.

To loosen a corroded plug from its seat lubricant is forced below the plug by operating a screw plunger in the stem.

Lubricant in the chamber 12 is forced by the screw 11 down grooves 13¹ in the side of the plug into the space 14. To prevent excessive pressure the plug rests on a ball 20 on the screw stud 15 and a stop 21 limits the movement of the plug.

The channels 13¹ may be made in the seating face of the body.

2 figures, 3 claims.

Illustrated Notes—continued.

2242. 4 Oct. E. J. ROBERTS, N.Z.

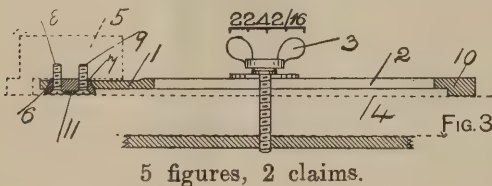
Date applied for under Intercolonial Arrangements, 8th Oct., 1915, New Zealand, No. 36,811.

Classes 50.8; 48.3.**Paper Feed Guide.**

To lock the feed guide 5 by clamping the plate 1 on the feed-board 4, a truncated cone 7 is mounted in the plate and secured to the guide.

A projection 10 is formed on the other end of the plate which is clamped by the set-screw 3 adjustably mounted in a slot in the plate.

The plate may be hollowed out on the underside and studs of rubber may be inserted in the base of the cone to avoid marking the board.



5 figures, 2 claims.

2246. 4 Oct. A. R. DYER, England.

Date applied for under International or Intercolonial Arrangements, 18th Oct., 1915, Great Britain, No. 14,700/15.

Classes 88.2; 74.9.**Extinguishing Fires.**

To enable an aerated water siphon to be used efficiently for extinguishing fires a nipple having a tapering bore is adapted to fit over the discharge pipe. The bent nipple 3 is made of rubber, or of metal lined with rubber.

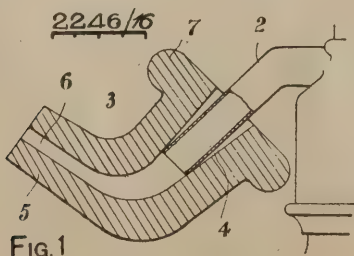


FIG. 1

2 figures, 2 claims.

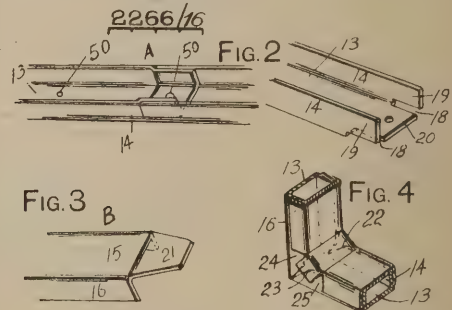
2266. 9 Oct. G. C. MAAS, N.S.W.**Class 03.3.****Electric Conduit.**

A sheet-metal conduit for electric wires which is composed of two interfitting rectangular channel sections.

The conduit consists of rectangular channel members A and B, the joint of the base member A being formed by splitting the base at 18 after which the end is closed in to a smaller cross-section.

The jointing of the cover member B is effected by forming a tongue 21 adapted to telescope the abutting section. Angle-pieces are formed by cutting angular pieces from the sides as at 22, 23 and 24, 25 in the base member and cover respectively, after which the conduit is suitably bent.

Tee-pieces, curves, &c., are similarly formed by cutting the base and side members or as an alternative stamped jointing members of channel section, and suitably configured, may be utilized.



18 figures, 4 claims.

2524. 9 Nov. ASKE, AUTOMATIC VOLTAGE REGULATOR COMPANY, assignee of I. E. ASKE, act. inv., Minn., U.S.A.**Classes 02.6; 03.8.****Magneto Lighting System.**

To maintain a nearly constant intensity of light at all speeds automobile electric head lamps are operated in parallel from a variable speed magneto by being connected through opposed differential reactance coils on a common core.

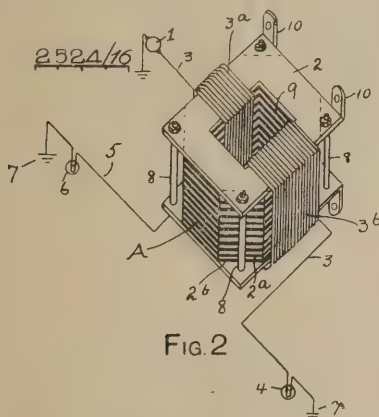
The magneto 1 supplying A.C. is connected to two opposed reactance coils 3a, 3b, the latter having twice as many turns as the former. Current for the lamp 4 flows through both windings 3a, 3b, while current

[Continued next page.]

Illustrated Notes—continued.

for the lamp 6 flows through the coil 3a only.

When both lamps are in circuit the choking effect of the two coils is neutralized by the balancing of the magnetic flux. When one lamp is extinguished an unbalanced component of the flux is produced by one of the coils which results in the necessary choking effect.



5 figures, 3 claims

2535. 10 Nov. W. P. BRAUN, New York, United States of America.

Class 47.2.

Felting Hair.

To form felt for hats, &c., fur is separated from the hide and submerged in a boiling solution of soda ash or alkaline substance.

The treated hair is dried, run through a picker and blower machine, and made into cones, the shrinking and felting being effected by boiling water in place of the usual sulphuric acid.

No drawing, 5 claims.

2582. 15 Nov. J. W. MOFFAT, Canada.
Classes 06.8; 16.37.

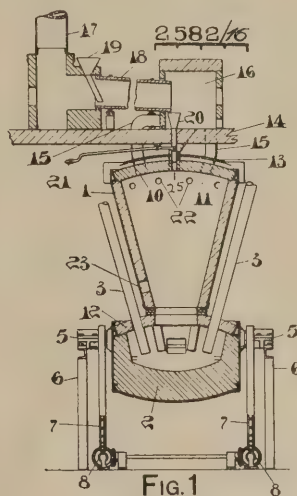
Electric Ore Reduction Furnace.

To facilitate the tilting operation the crucible and reducing chamber are adapted to turn as a unit.

The crucible 2 and reducing chamber 1 are mounted upon trunnions 5. A central open-

ing for admission of ore and six apertures 11 for the exit of the gases are provided in the curved cover 10, a sheet of iron 13 serving to seal these openings when tilting takes place. Current is supplied by the electrodes 3.

Above the furnace is situated a chamber 16 into which the gases pass on their way to the stack 17. A rotary tube roaster 18 is provided for preheating the ore, the latter being fed to the reducing chamber 1 in the form of a shower through a tube 20 which is raised when desired by a lever 21 to allow the furnace to tilt freely.



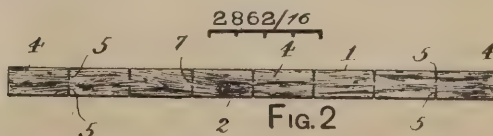
3 figures, 7 claims.

2862. 20 Dec. COMBINATION MACHINE COMPANY, assignee of J. PETERSON, act. inv., New York, United States of America.

Class 33.3.

Tobacco Plug.

To enable a quid to be readily detached without damaging the facing leaves or the filling, intersecting narrow incisions 5 are made on each face of the plug, an internal web 7 being retained to support the sections.



3 figures, 3 claims.

Illustrated Notes—continued.

2727. 2 Dec. D. F. COMSTOCK, Mass.,
United States of America.

Date applied for under International or
Intercolonial Arrangements, 16th Feb.,
1916, United States of America, Serial No.
78,754/16.

Class 53.4.

Projection Apparatus.

To assist in bringing into accurate register
images which are simultaneously projected
upon a screen along separate optical axes,
a transparent refracting medium which is
capable of angular adjustment is situated in
one or more of the optical axes.

The refracting medium consists of a trans-
parent glass plate 6 having plane parallel
surfaces. One plate is situated in each op-
tical axis in front of the film and is mounted
upon bearings 4 and 40 arranged at right
angles to secure adjustment in either direc-
tion. The bearings are tightened by screws
11 and adjustment is effected by the
handles 7.

Due to the refraction caused by the glass
plate when tilted, a beam of light B^2 is re-
fracted in such a manner that the emergent
ray B^1 is displaced to a minute degree from
its virtual path B^3 , thus permitting accurate
registration to be effected.

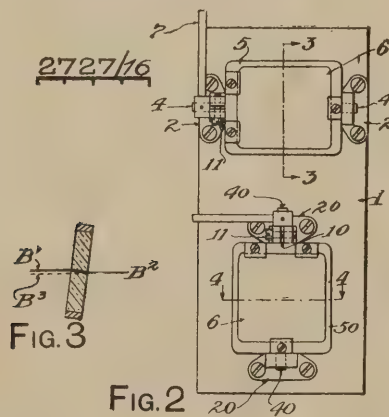


FIG. 2
4 figures, 4 claims.

2774. 9 Dec. J. WOODS, China.

Class 87.4.

Abdominal Support.

To maintain an even pressure and prevent
the pads from slipping, the usual steel band
is replaced by a broad fabric belt 1 which
is adjustable at the front 3 and the rear and

has retaining thigh straps 17 and reinforce-
ments 10.

The removable rupture pads are carried
in pockets which are attached to the inner
side of the depending portions 13. A remov-
able suspensory sling 12 is detachably
mounted upon the front of the belt for use
in case of a very low rupture or hernia.

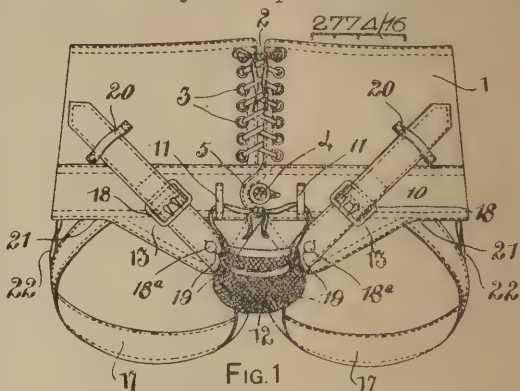


FIG. 1
4 figures, 6 claims.

2809. 14 Dec. S. KANNER, New York,
United States of America.

Class 75.2.

Razor Strop.

A machine for stropping ordinary razors
in which the blade-holder 15, mounted on a
screwed roller 14, is reciprocated laterally
over the strop 11.

The strop when reciprocated over the
screwed roller 14 is given reverse transverse
movements by means of two rollers 26 which
are caused to traverse the screws 24 to the
right and left.

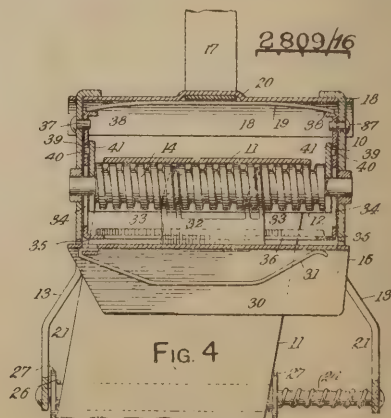


FIG. 4
5 figures, 7 claims.

Illustrated Notes—continued.

2777. 11 Dec. A. R. BARTEL, Victoria.

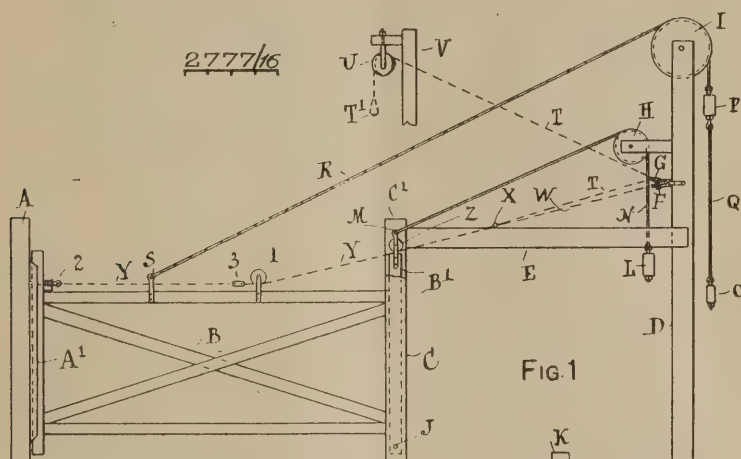
Class 81.9.

Field Gate.

A vertically moving gate in which the final opening or closing movements are controlled by counterbalance weights.

The gate is pivoted at **J** to posts **C**, **C**¹. The balance weights **L**, **P**, **O** are connected to the gate by the ropes **N** and **R**. Pull ropes **T** are operated from either side of the

gate to withdraw the spring-bolt 2, and when the lug 3 presses against the block 1 the gate is swung open. When the gate begins to open by gravity the weight O reaches the ground and the weights L, P tend to retard the sudden descent of the gate on the block K.



3 figures; 7 claims.

2870. 21 Dec. B. M. GIROUX, Illinois, United States of America.

Date applied for under International or Intercolonial Arrangements, 27th Dec., 1915. United States of America, No. 1,196,104.

Class 53.4.

Stage Illusion.

To present the illusion of the crater of a volcano in eruption, &c., a horizontal translucent sheet of fabric, covered with sponges coloured to represent rocks, is suspended at ground level above the stage and is agitated by currents of air derived from fans situated underneath. Steam jets are employed to give the effect of rising vapours.

The sheet 18 is suspended at its ends to

sag towards the centre. Fans 24 arranged underneath give the sheet an up-and-down motion during which the sponges 21 are projected into the air. To the rear of the set-piece 2 are connected steam jets 29 operating in conjunction with smoke-pots 34 slidably mounted at the back of the front set-piece 1, the vapour and smoke being illuminated by spot lights 45 and 46.

[Illustration next page.]

Illustrated Notes—continued.

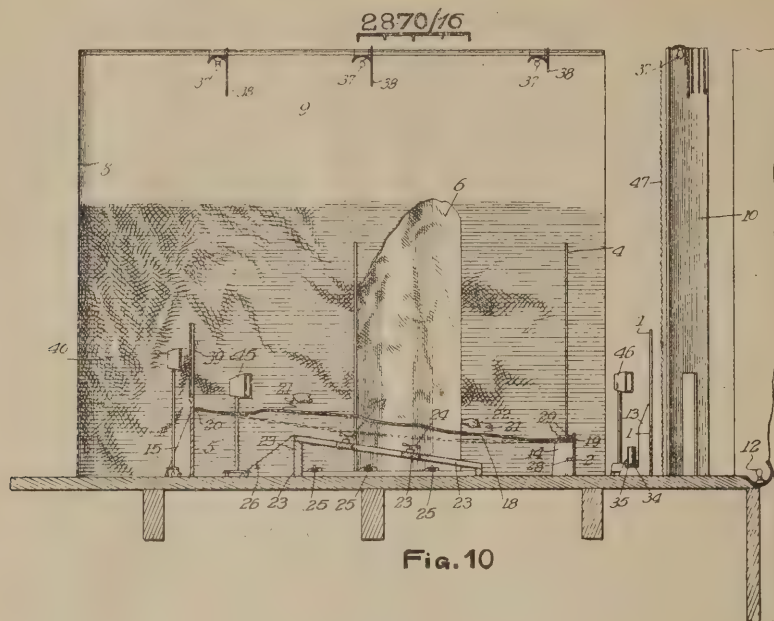


Fig. 10

14 figures, 9 claims.

2872. 21 Dec. W. F. BOWERS, Cal.,
United States of America.

Class 41.9.

Conveyor Belt.

To prevent wear caused by deposition and slip of the conveyed material the belt surface 4 is formed by vulcanizing a series of inclined overlapping and interlocking layers of fabric 6 between layers of rubber 7.

The fabric 6 is cut on the bias and the

wear surface is inserted after the horizontally disposed fabric 2 and side portions 5, 5' have been moulded.

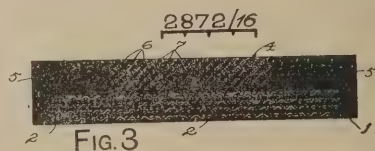


FIG. 3

5 figures, 3 claims.

2892. 28 Dec. A. W. KNIGHT, Eng.

Classes 78.1; 58.4.

Horseshoe Nail.

To reduce the tendency of the nail to enter the soft part of the foot the nail is formed with a flat inner face and the head overhangs the outer face thus causing the head to bend inwards when driven home.

The countersink of the head *a* is formed of less depth than the hole into which it is driven, and a driving extension *b* on the head is provided with tapering sides and parallel front and back faces.

The side *h* of the nail-head has an inclination different from that of the outer face *i*

of the hole in the shoe. The shank is formed with upper and lower grooves on the outside and inside faces respectively.

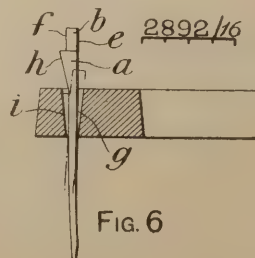


FIG. 6

6 figures, 3 claims.

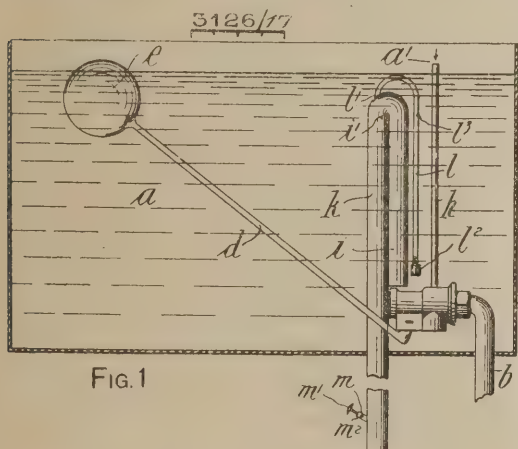
Illustrated Notes—continued.

1917.

3126. 2 Feb. T. SMITH, Victoria.**Class 86.2.****Flushing Cistern.**

A silent flushing cistern in which the submerged water inlet is fitted with an open air-pipe extending above the water level and air is admitted above the water inlet to break the siphonage.

Air is sucked in through the pipe *h* as the water enters from the pipe *b*. An air-lock is formed in the pipes *k*, *i* between the water and a second trap. On pressing the push rod *m*¹ compressed air will escape through the opening *m*² and permit the flushing to take place. When the water level reaches the adjustable opening *l*² air is admitted through the pipe *l* to break the siphon. A small opening *l*³ permits the escape of air from the pipe *l* as the water level rises.



4 figures, 4 claims.

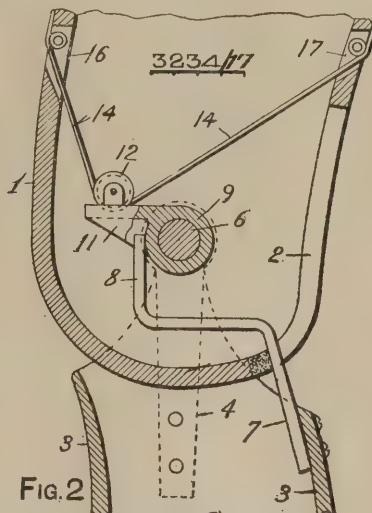
3234. 14 Feb. C. AUNGER, California, United States of America.

Class 87.4.**Artificial Knee Joint.**

To limit the forward movement of an artificial leg a check 7 secured to the leg 3 passes through a vertical slot 2 in the stump and has its upper end offset to bear against the hub 9 of lever-arm 11.

The lever and side extensions 4 of the leg are rigidly secured to the bolt 6. A controlling strap 14 passes under the roller 12 on the lever 11 and extends through openings 16 and 17 to the wearer's shoulder.

On raising the shoulders the strap exerts an upward pull on the lever and swings the leg forward till the check 7 contacts with the end of the slot 2.



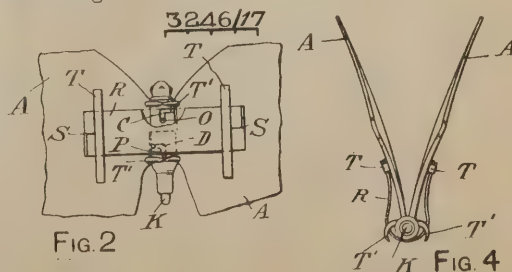
4 figures, 7 claims.

3246. 14 Feb. Sarah A. PEARSALL, New York, United States of America.

Class 43.8.**Veil Clasp.**

To secure the folds of a veil, &c., the spurs of hinged wings are adjusted by the movement of pins in slots formed in the butt of the hinge and in the sleeve surrounding the rod.

The spring-rod *K* carries pins *O* and *P* which project through slots in the sleeve and butts of the wings, and the spring *R* normally holds the wings raised. The folds are inserted in the spurs *T*¹ and the wings depressed. The spring-rod *K* then moves the pins in the longitudinal slots *C*, *D* to lock the wings.



5 figures, 5 claims.

Commonwealth Specifications.

The following Specifications are now on sale :—

1904-10.

1 to 20,337, Vols. 1 to 102, complete with title pages, &c.

1911-15.

1 to 7599, Vols. 103 to 140, complete with title pages, &c.

7600 to 7799, Vol. 141, incomplete.

7800 to 8599, Vols. 142 to 145, complete with title pages, &c.

8600 to 14,445 and all subsequent accepted Specifications.

11,105. Dunn. Not accepted, but open to public inspection.

11,136. Nobel's Explosives Co. Ltd. (Nathan, Rintoul, & Thornburn). Not accepted, but open to public inspection.

11,532. Graetz (Ehrich & Graetz). Not accepted, but open to public inspection.

12,984. McCourt & Boncourt Surface Combustion Ltd. Not accepted, but open to public inspection.

13,591. Pfeumer. Not accepted, but open to public inspection.

13,830. Wapshare. Not accepted, but open to public inspection.

14,158. Scott-Snell. Not accepted, but open to public inspection.

15,364. Davis. Not accepted, but open to public inspection.

17,678. Hansen. Not accepted, but open to public inspection.

The following Specifications, acceptance of which was advertised in *Official Journal* of the 27th March, 1917, are now printed and on sale :—

18,169. Burnett & Grice-Hutchinson.

1916.

344. Stevens & Nicholls.

538. Echlin.

557. Shepherd & A. & T. Burt Ltd.

578. Handley.

666. Jorgensen.

714. Indo-European Telegraph Co. Ltd. (Moore).

817. Montgomery.

943. McKinnon.

959. Harland.

975. Carmody.

1105. Benoit.

1162. May Bros. & Co. Ltd. (May).

2037. Adams.

2136. Svenska Aktiebolaget Gasaccumulator (Sjostrom).

2454. Aktiebolaget Svenska Kullagerfabriken (Fjellman).

2695. Wheatecroft.

2795. Barker.

1917.

2987. Turri (Smith).

Further particulars will be found in the Illustrated Notes, pages 271 to 280 of Vol. 26.

A list of Patent Offices and Libraries at which Printed Specifications are placed for *free* public inspection is given with the first list of each quarter.

Complete sets of Printed Specifications may be obtained from the Government Printer, Melbourne, at 4d. per copy delivered over the counter. Specifications relating to one Group of manufacture, in order as issued, or such of the Specifications (in one Group) as may be selected from those already published, until 80 copies have been supplied, may be obtained on depositing £2. Parcels of 30 Specifications may be purchased at £1. Postage should be added to cheques if parcels are desired to be forwarded by mail. Single copies of Specifications, 1s. per copy, post free.

Printed Specifications are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Applications for Letters Patent for the period 1904 to 1910 were numbered from 1 to 20,337; for the period 1911 to 1915 from 1 to 18,302; a new series of numbers was commenced on the 1st January, 1916. To avoid confusion when purchasing Specifications, the **number**, **year**, and **name** of applicant for Letters Patent should be quoted.

Letters Patent Sealed.

Applications for enlargement of the time for payment of the renewal fee may be made on Form P.

The page and year quoted in last column refer to the Journal in which the notice of acceptance of Complete Specification was published.

Names of actual inventors, communicators, assignors, &c., who are not grantees are added in parentheses after the name of the grantee.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1915.		<i>30th March, 1917.</i>		
17,971	18 Nov.	J. S. Williams ...	Truck coupler ...	1135/16
18,225	22 Dec.	C. Stewart & R. Gibson...	Bunsen burner ...	1216/16
1916.				
1340	24 June	E. W. Petter ...	Internal combustion engines ...	1216/16
1437	5 July	L. S. Mackie & C. W. Nicholls	Talking machine record box ...	1216/16
1452	6 July	Monotype Machine (Colonial Patents) Synd. Ltd. (J. S. Bancroft & M. C. Indahl)	Type-casting machine ...	1216/16
1460	7 July	The Subnought Gearing Co. Ltd. (A. A. Quick)	Winch ...	1216/16
1915.				
1486	27 July	The Mills Equipment Co. Ltd. & W. P. Wise	Military equipments ...	1216/16
1562	29 July	Sir C. A. Parsons, K.C.B., R. Howe, & S. S. Cook	Heat exchangers ...	1216/16
1916.		<i>31st March, 1917.</i>		
1451	6 July	Monotype Machine (Colonial Patents) Synd. Ltd. (J. S. Bancroft & M. C. Indahl)	Rule strip casting machine ...	1216/16
1987	6 Sept.	E. Ruck ...	Smelting furnaces ...	1216/16
2041	11 Sept.	E. Phillips (D. C. Spruance—L. H. Brinkman)	Flexible tubes ...	1216/16
1915.		<i>2nd April, 1917.</i>		
17,317	2 Sept.	G. Kanter ...	Resilient tyre ...	1188/16
1916.				
188	1 Feb.	H. J. Milner ...	Laundry brushing machine ...	1089/16
1915.				
1314	29 June	J. W. Wood ...	Platform weighing scales ...	1115/16
1916.				
1470	8 July	S. A. Kapadia ...	Preserving fruits, &c. ...	1188/16

Letters Patent Sealed—continued.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1916.				
<i>4th April, 1917.</i>				
746	11 Apr.	The Cleveland Motor Plow Co. (R. H. White)	Motor driven cultivator	1216/16
<i>5th April, 1917.</i>				
1656	28 July	Prickly Pear Eradicator & Land Co. of Australia Ltd. (J. D. Henry)	Liquid fuel burner	1216/16
1914.				
<i>11th April, 1917.</i>				
13,029	29 Apr.	R. Houben	Concrete and mortar	889/16
1915.				
17,623	6 Oct.	G. E. Moreton	Artesian boring machines	1216/16
18,097	6 Dec.	H. Pope	Hose coupling	1216/16
18,106	6 Dec.	H. & A. Rose	Furniture body spring	195/16
18,273	29 Dec.	J. A. Brown	Taps	478/16
1916.				
1317	22 June	A. E. & A. Atherton	Tap for steam and water	1216/16



Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

Names in parentheses indicate actual inventors, &c., who are not applicants.

No.	Date of Application.	Name of Applicant.	Abbreviated Title.	Page and Year.
1915.				
17,274	27 Aug.	G. B. Clerk	Automatic electric elevators	1203/15
17,293	31 Aug.	The Allies Electric Lamp Co. Ltd. (Baron A. Ott von Batorkez und Verinkhaz & E. Le Naour)	Cutting electric lamp globes	1188/16
17,302	31 Aug.	S. R. Ellison	Tin opener	1452/15



Assignments Registered.**1918.**

11,334. "Improved gas control for bath heaters and the like."

Assignment of whole interest *by* Alice Maud GILRUTH *to*

Tresco Godolphin ROWE, trading as THE LABOR SAVING DEVICES COY. Registered 4th Apr., 1917.

1915.

18,004. "Improvements in devices for attachment to the delivery pipes of beer-pumps and the like."

Assignment of one-half share or interest *made by* Joseph Ben OTTER (*assignee of* Horace Gordon FUTCHER) and Hugh Roy CRICHTON *to*

Albert Hector STAINER. Registered 2nd Apr., 1917.

1916.

2041. "Flexible tubes and methods and apparatus for making same."

Assignment of whole interest *by* Edwin PHILLIPS *to*

Daniel Corbit SPRUANCE. Registered 3rd Apr., 1917.

Renewal Fees Paid.

(Names in parentheses indicate original grantees.)

1910.			
No.	Name.	Abbreviated Title.	Paid up to—
17,507	Schoop, M. U.	Applying metallic coatings	30th Mar., 1924
17,623	Sabulite Pty. Ltd. (Delvigne, M.)	Explosives	12th Apr., 1924
17,733	Bartlett, S.	Envelopes	26th Apr., 1924
18,070	Jenyms, S. A.	Corsets	30th May, 1924

Patents Void through Non-payment of Renewal Fees.

(Names in parentheses indicate original grantees.)

1909.

No.	Name.	Abbreviated Title.	Patent Ceased.
14,121	Frearson, R. S.	Hose coupling	29th Mar., 1916
14,136	Goss, W. E., & Raphael, A. (Goss, W. E.)	Gas generator	30th Mar., 1916
14,141	Dashwood, F.	Bricks	16th Nov., 1915
14,142	Penkert, W.	Electrical waves	30th Mar., 1916
14,143	Cooley, J. F., & Ball, W.	Mechanical movements	30th Mar., 1916
14,149	Ralph, R. W.	Displaying pictures	31st Mar., 1916
14,153	Kaesler, R. E.	Propellers	31st Mar., 1916
14,164	Downing, H. W.	Saddle-trees	31st Mar., 1916
14,166	Sollitt, G.	Venetian blinds	1st Apr., 1916
14,170	Gee, J. E. & E.	Scrubbing apparatus	1st Apr., 1916
14,171	Newth, W. H. D.	Spraying appliance	1st Apr., 1916
14,173	McEwen, R.	Securing corrugated iron	1st Apr., 1916
14,174	Kirkham, Hulett & Chandler Ltd., & Hersey, S.	Filters	30th Apr., 1915
14,175	Forrest, H., & Davis, W. L.	Bottle	1st Apr., 1916
14,182	Watkinson, A.	Closet-pan covers	2nd Apr., 1916
14,185	Nelson, A. D.	Heating water	2nd Apr., 1916
14,186	The Metals Extraction Corp. Ltd.	Furnaces	2nd Apr., 1916
14,192	Hannan, J.	Rock drills	5th Apr., 1916
14,199	Flanagan, D.	Sewing machines	30th Apr., 1915
14,204	Harvey & Co. Ltd. (Turri, G. G.)	Pneumatic stamper	5th Apr., 1916
14,206	Marshall, Sir J. H.	Musical instruments	6th Apr., 1916
14,209	Egeberg, O. F.	Purifying oil	6th Apr., 1916
14,210	Troy, J.	Sanitary pans	6th Apr., 1916
14,212	Restler, J. W.	Water or gas cock covers	6th Apr., 1916
14,213	Elieson, C. P.	Electric accumulators	6th Apr., 1916
14,217	Nesbitt, E.	Slip bodice	7th Apr., 1916
14,218	Taylor, F....	Pipe organ stop-key	7th Apr., 1916
14,219	Taylor, F....	Pipe organ valve	7th Apr., 1916
14,223	Hyde, G.	Extension table	7th Apr., 1916
14,225	Craddock & Co. Ltd. (Craddock, A. R., & Scott, W.)	Flooring cramp	8th Apr., 1916
14,226	Adamson, M.	Corsets	8th Apr., 1916
14,228	Millar, F. R.	Boiler furnaces	8th Apr., 1916
14,229	Hannan's Ltd. (Hannan, W. H.)	Bath heaters	8th Apr., 1916

GEORGE TOWNSEND,

Commissioner of Patents.

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Not exceeding three months	3	0	0	On application to alter name or address in Register	0	10	0
On appeal from Commissioner to Law Officer	3	0	0	On application to correct clerical error in Register	0	10	0
On application to lodge further evidence in Opposition Cases. By person making application	2	0	0	On application to correct clerical error. Before sealing	0	5	0
On hearing by Commissioner of application to lodge further evidence in Opposition Cases. By applicant and by opponent respectively	1	0	0	On application to correct clerical error. After sealing	0	10	0
On hearing by Commissioner in Opposition Cases. By applicant and by opponent respectively	1	0	0	Office copies of documents, for every 100 words, but never less than One shilling	0	0	6
On application to amend specification. Before sealing	2	0	0	For examination of copies not made in office, for every 100 words, but never less than One shilling	0	0	3
On application to amend specification after lodgment of notice of opposition	3	0	0	For office copies of drawing, sun prints	0	1	0
On application to amend specification. After sealing	3	0	0	For office copies of drawings (according to agreement).			
On lodging notice of opposition to application to amend	2	0	0	For examination of drawings or sun prints not made in the office, but never less than One shilling	0	0	6
On hearing by Commissioner of application to amend. By applicant and by opponent respectively	1	0	0	For certificate of Commissioner under section 28 of the Act or under Regulation 130	0	5	0
On application to amend specification during action for infringement or proceeding for revocation	3	0	0	Search or inspection fee each	0	1	0
On request to amend any document under Regulation 147	2	0	0	Annual search fee	5	0	0
On application for enlargement of time for sealing a patent—				Examination entry fee by candidate for Patent Attorney's examination	2	0	0
Not exceeding one month	2	0	0	Fee for registration as a Patent Attorney	5	0	0
Not exceeding two months	4	0	0	Annual fee payable by a Patent Attorney	2	0	0
Not exceeding three months	6	0	0	Additional fee for restoration of Patent Attorney's name to Register	0	10	0
On enlargement of time for payment of renewal fees—							
Not exceeding three months	2	0	0				
Not exceeding four months	2	13	4				
Not exceeding five months	3	6	8				
Not exceeding six months	4	0	0				
Not exceeding seven months	4	13	4				
Not exceeding eight months	5	6	8				
Not exceeding nine months	6	0	0				
Not exceeding ten months	6	13	4				
Not exceeding eleven months	7	6	8				
Not exceeding twelve months	8	0	0				

Patents (Temporary) Regulations 1914.—Fee.

On application for the avoidance or suspension of patent rights or licence	2	0	0
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Fees must be tendered in cash or postal note or in money order payable to the Commissioner of Patents, Melbourne, to whom all communications must be addressed.

Tuesday, 21st August.

[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

THE
Australian Official Journal
of Patents.



Notices.

Applications Received, 4837 to 4913.
Commonwealth Proceedings.

PRICE (including postage):—Single Copy, 6d. Annual Subscription (including volume of Statistics and Indexes), 25s. Obtainable at the Government Printing Office, Melbourne.

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C.10715.



All communications to be addressed to the Commissioner of Patents, Railway Buildings, Melbourne, Victoria.

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NOTICES.

Patents Act 1903-1909.

NOTICE is hereby given that JAMES ROBINSON, of Britannia Foundry, Gawler, in the State of South Australia. Commonwealth of Australia, Iron and Steel Founder, has presented a petition to the High Court of Australia praying that an order may be made for the extension of his patent No. 552, Commonwealth of Australia, granted to him for "Improvements in and relating to shares for scarifiers cultivators and like implements." And notice is hereby further given that the said petition was filed in the South Australian Registry of the High Court of Australia on the 4th day of August, 1917; and that the address for service of the said James Robinson is the offices of Poole and Johnstone, Solicitors, Register Chambers, Grenfell Street, Adelaide, in the State of South Australia. Dated this 7th day of August, 1917.

JAMES ROBINSON

NOTICES—continued.

WARNING TO THE PUBLIC.

The Public are notified that entries in the *Australian Official Journal of Patents* under the headings:—

Applications with Provisional Specifications Lapsed.

Applications with Complete Specifications Lapsed.

Applications with Complete Specifications (open to public inspection) Lapsed.

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

Patents void through non-payment of Renewal Fees.

must not be accepted as final, as under Regulations 7 and 8 of the Patents (Temporary) Regulations 1914 the Minister or the Commissioner may in certain cases defined in the Regulations extend the time prescribed by the *Patents Act* 1903–1909 for doing any act or filing any document.

The Patent Office will furnish, on request accompanied by the prescribed search fee of One Shilling, definite information, so far as possible, as to the position of any particular Application or Patent.

Application for Restoration of Lapsed Patent under Section 85A.

NOTICE is hereby given that GEORGE HERBERT BAILEY, late of Emu Flat, Majors Creek, but now of Rouse Hill, New South Wales, Commonwealth of Australia, Police Constable, has made application for the restoration of the Patent granted to WILLIAM BOUND and GEORGE HERBERT BAILEY for an invention entitled "Improvements in and relating to the manufacture of gloves from rabbit skins and other like skins," numbered 11,129, and bearing date the 25th day of March, 1908, which expired on the 25th day of March, 1915, owing to the non-payment of the prescribed renewal fee.

Any person may give notice of opposition to the restoration of the said patent by leaving Form G2, together with the prescribed fee of £2, at the Patent Office, Melbourne, on or before the 14th day of November, 1917. See *Patents Regulations* 1912, Regulations Nos. 34 to 39 inclusive.

GEORGE TOWNSEND,

Commissioner of Patents.

Official Circulation.

The *Australian Official Journal of Patents* is available for free public inspection at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses in Brisbane, Adelaide, Perth, and Hobart on the arrival of the first post after its publication at the Patent Office in Melbourne. Complete files are posted to Government Patent Offices in all parts of the world, and to a large number of Public Libraries and Technical Institutions in the principal cities of Australasia, Great Britain, Europe, America, Africa, and Asia. The *Journal* may also be inspected at the offices of many technical periodicals to which copies are sent in exchange.

Classification and Word Index, 1916.

A revised edition of the Classification of Manufactures and of the Word Index thereto is now ready and on sale at the Government Printing Office, Melbourne, price Two Shillings and sixpence, post free.

COMMONWEALTH.

PROCEEDINGS UNDER THE "PATENTS ACT 1903-1909."

**List of Applications for Letters Patent received from
9th to 15th August, 1917.**

The abbreviations "Prov." and "Comp." after the numbers indicate respectively that a Provisional or Complete Specification was lodged with the Application.

Thursday, 9th August.4837. *Prov.* Charles Richard LYNDS—

"An improved door and gate fastener."

4838. William Hepworth DIXON.

[Date applied for under International or Intercolonial Arrangements, 18th Jan., 1917, being date of application in Great Britain, No. 106,071.]

"Improvements in the manufacture of wax tapers for matches or other purposes."

4839. *Prov.* Christopher Henry HAKEN-DORF—

"Improvements in syphons for emptying the liquid contents from containing vessels."

4840. *Prov.* Fred Tunnicliffe WHITLOW—

"Betere chair seat."

4841. *Prov.* Toivo Viktor MANNER-HEIMO—

"Improved liquid starter."

4842. *Prov.* Robert George CROSBIE—

"An improved bracket for supporting curtain poles and the like."

4843. *Prov.* Charles Robert PROSSER—

"Improvements in and connected with railway or other ticket supply tubes."

4844. *Prov.* Lancelot Eldin DE MOLE and Harold Leslie BOYCE—

"Improvements in chain-rail vehicles."

4845. *Prov.* Thomas Edward PROPHET and Arthur Gordon JACKSON—

"Improved method of welding copper."

4846. Harold MOORE and Charles DAY.

[Date applied for under International or Intercolonial Arrangements, 29th Aug., 1916, being date of application in Great Britain, No. 104,636.]

"Improvements in continuous stills for coal tar, mineral oils and similar products."

4847. *Comp.* Clement Alfred HACK, *communi- catee of* Avando Warren Hussey VIVIAN, *act. inv.*—

"Improvements in or relating to liquid hydrocarbon burners of the injector type."

4848. *Comp.* George Garibaldi TURRI, *communi- catee of* David COCKBURN and Donald MACNICOLL, *act. invs.*—

"Improvements in safety valves."

4849. *Prov.* Herbert BEALE—

"Improved roofing board."

4850. Hannibal Choate FORD.

[Date applied for under International or Intercolonial Arrangements, 2nd Mar., 1917, being date of application in United States of America, Serial No. 151,917/17.]

"Power transmission."

4851. *Comp.* A. DOUGLAS JONES & Co. LTD.—

"Wood roofing."

Friday, 10th August.

4852. Julia Hannah CROOK and John Edward CROOK.

[Date applied for under Intercolonial Arrangements, 23rd Aug., 1916, being date of application in New Zealand, No. 37,824.]

"Improvements in window construction."

Applications received, 9th to 15th August—*continued*

4853. *Comp.* Clement Alfred HACK, *communi-
catee of* Avando Warren Hussey
VIVIAN, *act. inv.*—

"Improvements in or relating to mould-
ing or pressing machines for glass
or other ware."

4854. *Prov.* George FOGGO—

"An improved device for vaporising
kerosene fuel for petrol and other
engines."

4855. *Prov.* John Blackwell CROWTHER—

"Improvements in covers to earth
closets and the like."

4856. *Prov.* John William GALLAGHER—

"Draught spark consumer."

4857. *Prov.* William HEFFERNAN—

"Improved spring trap."

4858. *Comp.* Hugh Victor MCKAY, *as-
signee of* Robert HEASLIP and Henry Edgar
John HEASLIP, *act. invs.*—

"Improved adjustable tooth for stump
jump false or extension combs."

4859. *Comp.* JAMES MARTIN AND COM-
PANY LIMITED, *assignee of* John Francis
McNEILL, *act. inv.*—

"An improved cultivating attachment
for the hoes of seed and fertilizer
drills and the like implements."

4860. *Comp.* Sidney William Blumped
RENOUF—

"Improvements in and relating to
shaving brushes."

4861. *Prov.* David McVEA—

"Improved telescope ladder."

4862. *Prov.* Ashton Roy Gordon MAR-
SHALL—

"Improved quantity measurer for
liquids."

4863. *Prov.* Percy Horace CLARKE—

"Lock washer."

4864. *Prov.* Percy Horace CLARKE—

"Lock wood screw washer."

Saturday, 11th August.

4865. *Prov.* Austin Arthur Greaves DOB-
SON—

"Lucifer match striker on back of pen-
knife."

4866. *Prov.* Harry Tyer COMPTON—

"Improvements in plough shares."

4867. *Comp.* Clement Alfred HACK, *com-
muni-
catee of* Avando Warren Hussey
VIVIAN, *act. inv.*—

"Improvements in or relating to fur-
naces for melting glass or other
materials."

4868. *Prov.* Vincent Mortimer MAT-
THEWS—

"Improvement in the manufacture of
alcohol for industrial purposes from
certain waste and other products."

4869. *Prov.* Joseph Arthur BROWN—

"Improvements in and connected with
targets for rifle practice."

4870. AKTIEBOLAGET SVENSKA KULLAGER-
FABRIKEN.

[Date applied for under International or
Intercolonial Arrangements, 12th Dec., 1916,
being date of application in Sweden, No.
2737/16.]

"Improved method of hardening solids
of revolution."

4871. RUDGE-WHITWORTH LIMITED, *assign-
nee*, and William BLAIR, *act. inv.*

[Date applied for under International or
Intercolonial Arrangements, 12th Aug.,
1916, being date of application in Great
Britain.]

"Improvements in or relating to
vehicle wheels."

4872. *Comp.* Harry HOUDINI—

"Improvements in diving suits."

4873. *Comp.* William BIRRELL and
James BIRRELL, *act. invs.*, and Richard
Aloysius CAVENAUGH, *assignee*—

"Telephone transmitter."

4874. *Comp.* Alfred John MACY—

"Improvements in a method of auto-
matic control for vehicles."

Applications received, 9th to 15th August—continued.4875. *Comp.* Alfred John MACY—

"Improvements in an aeroplane controlling and stabilizing device."

4876. *Comp.* Alfred John MACY—

"Improvements in a stabilizing control for aeroplanes."

4877. *Comp.* Alfred John MACY—

"Improvements in method of automatic control for vehicles."

Monday, 13th August.4878. *Comp.* Cyril Alfred GILLES, *nominee* of Archibald Granville NEMES, *act. inv.*—

"Improved military shield or screen."

4879. *Prov.* William STAWELL and Hugh Calvert NANKIVELL, *attorneys* for Isidor MANSCHESLER, *act. inv.*—

"An invention of a material to counteract the contraction and expansion of wood blocks and the like."

4880. *Prov.* Arthur Henry STEWART and Joseph Thomas REECE—

"Steel spring cup handle."

4881. *Prov.* W. L. de Lisle ROBERTS—

"Increasing the growth of plants by an electric current."

4882. *Prov.* James SHORTT—

"An appliance for wringing mops and the like."

4883. *Comp.* Octavia Florence NEWTH, *assignee* of Basil NEWTH, *act. inv.*—

"Improved mechanism for feeding blast furnaces."

4884. *Prov.* Henry Edward HALLION—

"Improved draught attachment for harvesting machines and agricultural implements which have a tendency to side draught."

4885. *Prov.* Henry James WERE—

"An improved construction of roller for garden paths and lawns and like purposes."

4886. *Prov.* Thomas Merrin GATES—

"An improved solution for treating and rendering antiseptic woods of the class used in making boxes suitable for packing butter and other food substances."

4887. *Prov.* Marc Wilmot FINK—

"An improved shearing machine."

4888. *Prov.* Mary Caroline BAIRD—

"Junket snow."

4889. *Prov.* William Thomas ATTHOW—

"A double compartment match-holder with a striking surface attached."

4890. *Prov.* William Thomas ATTHOW—

"A method of hobbling horses whilst in harness or saddle."

Tuesday, 14th August.4891. *Prov.* George Richard Rich NICHOLAS—

"A chemical process or chemical composition for treating woods or timbers to be used in the making of butter boxes and cases and the like."

4892. *Prov.* George Herbert HENNING—

"Timber felling and cross cutting machine."

4893. *Comp.* Joseph Lemert BRADFELD, *act. inv.*, and Harold Alfred BROWNING, *assignee*—

"Valve dressing tools."

4894. *Comp.* Richard SCHUSTER—

"Improvements in diaphragms for galvanic cells and the like."

4895. *Prov.* William Smithwick DAGG, *communicatee* of *act. inv.*—

"Improvements relating to the hanging and fixing of window sashes."

4896. *Prov.* James Banks MITCHELL—

"Improved harness fixing or fastening."

4897. *Comp.* Richard SCHUSTER—

"Improvements in galvanic cells."

4898. *Comp.* Richard SCHUSTER—

"Improvements in galvanic cells."

Applications received, 9th to 15th August—continued.

4899. *Comp.* Richard SCHUSTER—
 "Improvements in galvanic primary cells."
4900. *Comp.* Richard SCHUSTER—
 "Improvements in galvanic cells."
4901. *Prov.* Charles Henry PYM and Edward James WITCOMBE, trading as WITCOMBE and PYM—
 "An improved gauge for wheels of motor cars and the like."
4902. *Prov.* Arthur George Lloyd NEIGHBOUR and Harry Cecil Wynne NEIGHBOUR—
 "Improvements in two-cycle internal combustion engines."
- Wednesday, 15th August.**
4903. *Prov.* Timothy COOP—
 "To prevent replacing of tickets in slots on railway station or other places."
4904. *Prov.* George Largie BRIGGS—
 "Improvements in roofing and walling constructions."
4905. *Prov.* Robert Wilson NOBLE—
 "Improved apparatus for working force pumps."
4906. *Prov.* Herbert Elliot SINGLETON—
 "Bench vise."
4907. *Prov.* Frederick George Hilson THOMPSON—
 "An improved attachment for handles of brooms and the like."
4908. Andrew Ernest RANDRUP.
 [Date applied for under Intercolonial Arrangements, 3rd Nov., 1916, being date of application in New Zealand, No. 38,093.]
 "Improved means for coiling and uncoiling barbed wire."
4909. *Prov.* THE NEW ZEALAND CASEIN COMPANY LIMITED (Olaf HOLST, *act. inv.*)—
 "An improved drier for casein manufacture."
4910. *Prov.* Harry Graham DUNCAN, professionally known as Graham WEATHERLEY—
 "Improved adjustable compensating device for variable loads of road vehicles."
4911. *Prov.* Percy James WILSON—
 "Cigarette filler."
4912. *Prov.* William Thomas TROTTER (Mrs. EVANS, *act. inv.*)—
 "An ointment for human use."
4913. *Comp.* Samuel NICOLSON—
 "Improvements in machines for disintegrating fibrous substances."



Provisional Specifications Accepted.

*Names in parentheses indicate actual inventors, &c., who are not applicants.
Italics indicate that some amendment has been made.*

1917.

4136. Richards, C., & Fletcher, J. W. *A process of obtaining fibre from plants of the thistle family.*
4159. Martin, J. C., & Coulthard, A. E. Tips for boots and shoes.
4350. Malone, M. *Improvements in riding saddles.*
4487. Cowell, A. Signs, letters, &c.
4499. Marchant, S. B., & Tucker, H. S. Affixing detachable bodies to motor chassis.
4509. Atlas, D. Trapping rats, &c.
4521. Eames, H. E. Blowfly trap.
4522. Bland, L. N. Vessels driven by internal combustion engines.
4541. Logan, S. McK., & Frew, A. C. Valves of pneumatic tyres.
4545. Fry, R. J. Fencing dropper.
4546. Howard, F. C. Oar loom buttons.
4547. Douglas, G. N. Roofing tile.
4556. West, A. A., & Garrett, W. J. Non-shrinkable wooden tank.
4560. Rees, J. H. Links for chain grate stokers.
4563. Martyn, T. H. (Martyn, W. H.) Internal combustion engines.
4564. Martyn, T. H. (Martyn, W. H.) Manual starting gear for engines.
4570. Ackland, J. N. (Davis, O.) Sectional spider wheel.
4575. Gillam, O. W. Trousers suspenders.
4580. Scott, G. C., & Champion, F. One fire stoves.
4581. Coombes, A. Ship-building construction.
4583. Knight, E., & Amourous, J. Lock-nut.
4584. Rogers, F. Wheels.
4602. Cronin, F. B. Protection of pneumatic tyres.
4612. Sifleet, S. B. Milk claw support.
4615. Stone, G. H. Gate fastener.
4616. Duncan, H., & Wilson, D. B. Attaching handles to brooms and brushes.
4625. Houlihan, W. J. Polishing floors, walls, &c.
4657. Astley, C. H. Side car shock absorber.
4658. Minerals Separation and De Bavay's Processes Australia Pty. Ltd. (Hebbard, J., Gardner, W. E., Harvey, J. R., & Wood, N. H.). Separation of sulphide ores by flotation.
4665. Townsend, C. Liquid sprayer.
4666. Townsend, C. Gardening hoe.
4671. McGavin, A., & Smith, F. D. Metal roofing tile.
4676. Morris, T. R. Drying paper pulp.
4682. Ramsay, A. E. Hose couplings.
4685. Pickworth, J. W. Ledgers and account books.
4686. Beauchamp, A. W. Interlocking points and signals.
4687. Schneider, E. B. Stirrups for reinforced concrete.
4690. Rogers, C. R. Conversion of wet precipitates into oil pastes.
3696. Coop, T. Clearing mice and rats from stacks.
4720. Beauchamp, A. W. Stoppering bottles.
4721. Simpson, M. H. Windsails of windmills.
4724. Corless, W. H. Oils, stains, and paints.
4725. Oyston, W. R. Playing attachments for musical instruments.
4729. Kelly, H. G. Emptying the contents of strippers.
4734. Wiatt, J. P. Water heater.
4735. Taylor, Myra J. Collapsible wheel tyres.
4738. Sinclair, J. A. Hauling motor cars out of difficult positions.
4774. Crump, H. Extension table.



Complete Specifications lodged after Provisional Specifications.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. The date following the title is that on which the Complete Specification was lodged.

1916.

650. Christina Elizabeth WALSTAB—

"An improved combination cooking and straining vessel. 10th Aug., 1917.

1866. William John GRIFFITHS—

"Improvements in and relating to detector devices used in conjunction with facing point locks for railways and tramways." 21st June, 1917.

1941. Edward WALL—

"Apparatus for driving the gear wheels of potato planting and like machines." 30th June, 1917.

1960. Henry Lionel ZIMAN—

"Improvements in marine life-preserving jackets." 9th July, 1917.

2191. Vere Locksley REEVE, *act. inv.*, and Walter Robert McCONNELL, *assignee*—

"An improved 'off set' printing machine." 26th July, 1917.

2278. John MILES, *act. inv.*, and Walter Henry LANE, *assignee*—

"An improved gear generating and hobbing attachment for universal milling machines." 9th Aug., 1917.

2283. Edward HEFFERNAN, *act. inv.*, and Rupert Norman PASCOE, *assignee*—

"An improved holder for hinge-hung doors." 9th Aug., 1917.

2311. Walter PERKS—

"Means for automatically altering the stroke of windmill pumps." 9th Aug., 1917.

2519. Charles Daniel TOOLIN—

"An improved preparation for neutralizing the effects of nicotine." 26th July, 1917.

2598. CLARENCE H. SMITH LIMITED, *assignee of Clarence Glen SMITH, act. inv.*—

"An attachment to a plough or other cultivating implement to prevent crabbing or sidewise movement of same." 15th Aug., 1917.

2630. Stephen MORELL—

"Improvements in or relating to the dispensing of beer and other liquids under pressure." 11th Aug., 1917.

2638. Arthur Walter HALL—

"Improved sheep truck or humane sheep truck." 14th Aug., 1917.

2680. Alfred Ernest WARNE—

"Improved means for increasing the buoyancy of a ship." 15th Aug., 1917.

2730. Sydney ROTHERY and Arthur Barclay POWELL—

"A method of handling permanent-way materials to expedite plate-laying." 10th Aug., 1917.

2865. Robert William HOLDEN—

"An improved reversible steam turbine." 14th Aug., 1917.

1917.

3002. Frederick SCOTT—

"Improved means for use in the manufacture of aerated beverages." 10th Aug., 1917.

3078. Thomas William ROUTLEY—

"Improvements in and relating to stripper-harvesters." 14th Aug., 1917.

3741. Rees JONES and John OXENHAM—

"Improved apparatus for treating paunches and offal." 15th Aug., 1917.

3807. THE WIRELESS HINGE MANUFACTURING COMPANY LIMITED, *assignee of George William BERRY, act. inv.*—

"Improvements in and connected with sheet metal presses for forming hinge members on and hingedly connecting the lids and bodies of sheet metal receptacles." 9th Aug., 1917.

3959. Richard Donal LANE—

"An improved reflector for use on railway tricycles." 9th Aug., 1917.

Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn.

Names in parentheses indicate actual inventors, &c., who are not applicants.

1916.

Lapsed.

- | | | |
|--|--|---|
| 2265. MacDonald, J. D. | 2277. National Egg Co. Ltd. (National Egg Co. of California Incorporated — Clairemont, V.) | 2299. Naunton, W. |
| 2271. Bennett, H. T. | | 2300. McCook, J. |
| 2272. Field, J., & Jones, H. | | 2301. Major, E. |
| 2273. Hoare, R. R. | | 2302. Ruse, R. |
| 2275. National Egg Co. Ltd. (National Egg Co. of California Incorporated — Clairemont, V.) | 2284. Fountain, W. G. | 2303. Grant, J. |
| | 2286. George, S. De L. | 2306. Kirkham, A. L. |
| | 2287. Ellingford, G. | 2307. O'Donnell, M. W. |
| 2276. National Egg Co. Ltd. (National Egg Co. of California Incorporated — Clairemont, V.) | 2291. Brown, C. L. | 2308. Grist, J. |
| | 2295. Leist, G. | 2309. Gull, A. C. |
| | 2296. Harrop, A. | 2312. Adamson, H., & Le-
strange, H. |
| | 2298. Perkins, J. I., &
Kepert, J. H. | 2313. Laycock, A. F. |
| | | 2314. Wierum, H. F. |
| | | 2317. Penberthy, A. E. |

1917.

Abandoned.

4480. Gibson, A. G.

Withdrawn.

4169. Dare, F. deV.

Applications with Complete Specifications (not open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. Names in parentheses indicate actual inventors, &c., who are not applicants.

1915.

Lapsed.

- 17,923. Garrood, H. J.

1916.

970. Burney, Elizabeth
983. Connell, W. J.
985. McMullan, R.
994. Grant, J. A. B.

1915.

Abandoned.

- 16,952. Roberts, A.

1916.

Withdrawn.

2513. Taylor, C. E.

Specifications open to Public Inspection before Acceptance,

UNDER SECS. 121 AND 122, "PATENTS ACT 1903-1909."

The specifications may be inspected at the Patent Office, Melbourne, on payment of the search fee of One Shilling in respect of each Application.

Typed copies of specifications will be supplied at Sixpence per 100 words (minimum charge, One Shilling).

Sun prints of drawings will be supplied at One Shilling per foolscap folio sheet (8 inches x 13 inches).

Fees must be tendered in cash or postal note or in money order, payable to the Commissioner of Patents, Melbourne.

1917.

3687. William James TINLINE.

[Date applied for under Intercolonial Arrangements, 14th Aug., 1916, being date of application in New Zealand, No. 37,786.]

"Improved ticket issuer for use with totalisators and like machines."

3907. Alexander Constantine IONIDES, jun.

[Date applied for under International or Intercolonial Arrangements, 11th Aug., 1916, being date of application in Great Britain, No. 11,374/16.]

"Improvements in or relating to gaseous fuel furnaces."

4320. Finch Portman INGRAM.

[Date applied for under International or Intercolonial Arrangements, 22nd May, 1916, being date of application in Great Britain, No. 104,273.]

"Improved life saving appliance."

4871. RUDGE-WHITWORTH LIMITED, assignee, and William BLAIR, act. inv.

[Date applied for under International or Intercolonial Arrangements, 12th Aug., 1916, being date of application in Great Britain.]

"Improvements in or relating to vehicle wheels."



Complete Specifications Accepted.

OPEN TO PUBLIC INSPECTION AT THE PATENT OFFICE, MELBOURNE.

SEARCH OR INSPECTION FEE—ONE SHILLING EACH.

Notice is hereby given that all persons interested in opposing the grant of a Patent on any one of the following applications may, at any time within three months from the date of this Journal, or within such further time not exceeding one month as may on application made within such three months be allowed, give notice at the Patent Office, in Form G, which must be accompanied by the fee of £2, tendered in cash or postal note or in money order.

Within fourteen days after the lodging of the notice of opposition, or within such further time as the Commissioner allows, the opponent shall leave at the Patent Office declarations and copies thereof in support of his opposition, and forthwith after the receipt thereof the copies shall be transmitted by the Commissioner to the applicant.

Failure by an opponent to lodge declarations shall be deemed intentional abandonment of the opposition.

1915.

- 17,219. Martin. *Improved apparatus for the water concentration of ores and more particularly slimes.*

1916.

1739. Espenhahn. Treating coal gas.
 1744. Willbrands. Auxiliary air valve.
 1814. Daintree. Skein holder.
 1841. Low. Anti-skidding chain.
 1866. Griffiths. Railway point detector.
 1902. Burley. Cooking stove.
 2064. McCredie, Arthur Latimer, & Brady. Fire-proof door.
 2230. Button. Packing case manufacture.
 2385. Davis. Reinforced concreting.
 2398. Elias (Zumkowski). Electric belt.
 2437. Myers. Sheep shears.
 2485. Macfarlan. Go-cart safety strap.
 2532. Phillips (Mills). Rotary rectifier.
 2534. De Garis. Cycle seat support.
 2858. Merrell-Soule Co., assignee of Irving Seaward Merrell, act. inv. Concentrating food products.

2859. Merrell-Soule Co., assignee of William Buell Gere, act. inv. Modified milk.

1917.

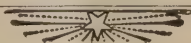
3013. Flannery. *Improvements in storage batteries.*
 3014. Flannery. *Improvements in storage batteries.*
 3259. J. G. Cherry Co. (Van Kuren). Treating milk.
 3346. Griffith (The Four Wheel Drive Auto Co.—Batenburg). Power transmission mechanism.
 3516. Gane Milking Machine Co. Ltd. (Kidd). *An improved milking machine pulsator.*
 3572. Robinson. Cultivator share.
 3595. Bennet & Reid. Roller blind.
 3688. Graham. Windmill head gear.
 3800. Underwood Typewriter Co. (Burrige). Typewriting machine.
 3851. Crozier. Pneumatic tyre.
 3883. Elliott. Comb holder.
 3950. Crozier. Pneumatic tyres.
 4064. Coe & Coe, jun. Dye or stain.

NOTE.—THE SURNAMES IN PARENTHESES INDICATE ACTUAL INVENTORS (OR OTHER INTERESTED PARTIES) WHO ARE NOT APPLICANTS. ITALICS INDICATE THAT SOME AMENDMENT HAS BEEN MADE.

Further information of the inventions in the above Specifications is given in the following Illustrated Notes, and the full particulars of names, addresses, and occupation or calling of persons concerned in each application are stated in the Printed Specifications.

Printed copies of the above Specifications may now be ordered from the Government Printer, Melbourne, price One Shilling each, post free for cash or postal note; the copies will be posted from Melbourne two weeks after the date of this Journal, when copies will also be forwarded to the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart, for sale on demand.

A list of Australian and Foreign Offices and Libraries at which the Printed Specifications are placed for free public inspection is given in the first Journal of each quarter.



Illustrated Notes

TO THE FOREGOING ACCEPTED COMPLETE SPECIFICATIONS.

The class numbers refer to similar inventions comprised in the Classified Subject Matter Indexes.

1915.

17,219. 23 Aug. W. M. MARTIN, Eng.

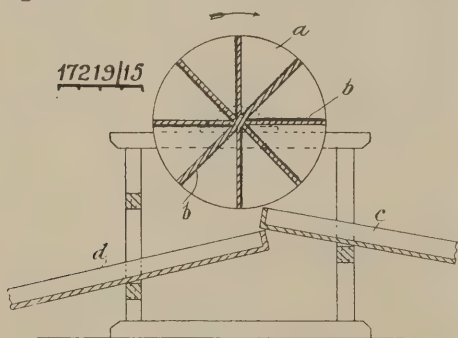
Date applied for under International or Intercolonial Arrangements, 27th June, 1914, Great Britain, No. 15,442/14.

Class 11.4.

Concentrating Ore.

To concentrate very fine tin ore or slimes fluted or frosted glass surfaces are placed in sections having rubber joints on revolving concentrating tables with the flutes at right angles to the direction of flow of the pulp.

Sand and water are fed to the revolving water wheel **a** provided with linings **b** of fluted glass, the flutes being $\frac{1}{16}$ of an inch deep and from 16 to 24 per inch. The gangue flows into the trough **c**, and the values retained by the flutes pass into the trough **d**.



1 figure, 5 claims.

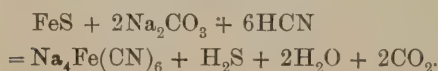
1916.

1739. 8 Aug. E. V. ESPENHAHN, Vic.

Classes 21.1; 09.8.

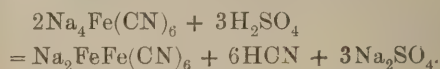
Treating Coal Gas.

To recover the cyanogen compounds from coal distillates, the gases, after the removal of the tar, are led at a temperature of 40-90° C. into centrifugal agitating washers containing a concentrated solution of sodium carbonate, in which ferrous sulphide is suspended and renewed from time to time to maintain the reaction:—



The washing solution when sufficiently charged is withdrawn and the sludge separated by filter pressing. The clear solution is allowed to cool in order to crystallize out the sodium ferrocyanide, and the resultant clear liquid, renewed with sodium carbonate and ferrous sulphide, is returned to the washing storage tank.

The sodium ferrocyanide is treated with sulphuric acid, producing hydrocyanic acid and sodium ferrous ferrocyanide—



The sodium ferrous ferrocyanide may be used with sodium carbonate for washing the crude gases, and the ferrous sulphide formed is used with sodium carbonate to produce more sodium ferrocyanide.

The purified gases are driven through ammonia saturators to form ammonium sulphate, or a portion of the gases may be passed through ferrous sulphate solution, the ferrous sulphide being returned for use with the crude gases.

No drawing, 6 claims.

1814. 17 Aug. Annie G. DAINTREE, New South Wales.

Class 41.5.

Skein Holder.

To hold a skein of wool while it is being wound into a ball a standard **8** is pivoted on a base **6** and provided with four expanding arms.

The ends of the bars **11** are pivoted to a fixed collar **9**, while the reversed bars **13** are pivoted to the sliding collar **14**. When the skein is placed in position the clamping screw **19** is released to permit the collar **14** to slide downwards to extend the arms and tighten the skein.

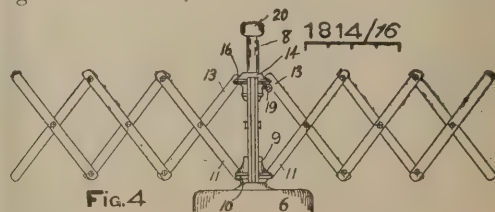


Fig. 4

5 figures, 2 claims.

Illustrated Notes—continued.

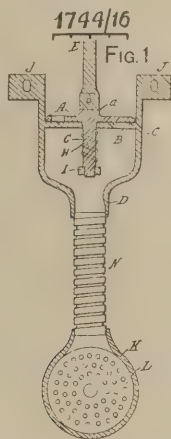
1744. 8 Aug. W. WILLBRANDS, New South Wales.

Class 66.5.

Auxiliary Air Valve.

To supply additional air to a motor-car engine the induction pipe is connected by a flexible tube to a disk valve operated by a handle clamped on the steering post.

A perforated disk **A** is retained in contact with a perforated seat **B** by a spring **H** and can be rotated by a handle **E**. The casing **C** is provided with lugs **J** for attachment to the car body, and is connected by a flexible pipe **N** to a second casing **K**. This casing has a perforated discharge plate **L** and is fastened to the induction pipe of the engine by a central bolt.



8 figures, 3 claims.

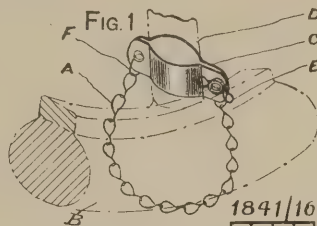
1841. 18 Aug. N. Low, Queensland.

Class 97.89.

Anti-skidding Chain.

To prevent the wheel of a motor-car from slipping a chain is passed around the tyre and clamped to the spoke by the plates **C** and the wing nut **E**.

The end link **F** is of rectangular form to enable the plates **C** to be adjusted to suit the size of the spoke.



3 figures, 3 claims.

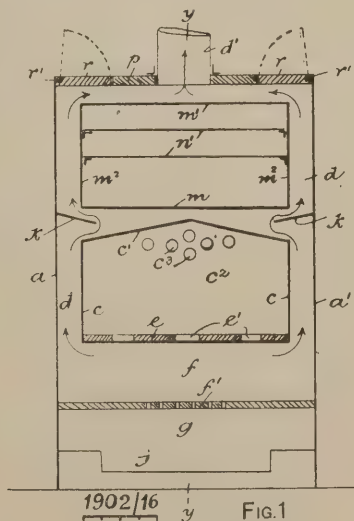
1902. 26 Aug. R. J. BURLEY, W.A.

Class 24.2.

Cooking Stove.

A stove, in which the oven is located above the hot plate, is provided with an ash-pan **i** below the fire-grate **f**¹, while vent holes **c**³ are situated above the pot holes **e**¹ to carry the steam into the rear flue **d**.

Sliding doors are provided in front of the air chamber **g**, furnace **f**, and oven **m**¹ which is fitted with removable trays **n**¹.

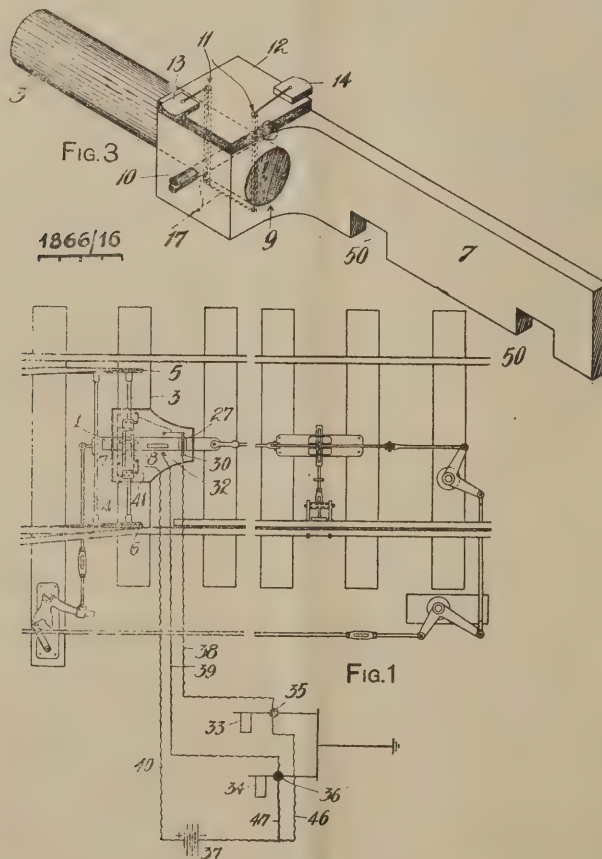


2 figures, 1 claim.

Illustrated Notes—continued.**1866.** 22 Aug. W. J. GRIFFITHS, Victoria.**Class 99.2.****Railway Point Detector.**

To detect damage to the points the socket rods 3, 4 of a split stretcher bar are connected with the blades 7, 8 by means of spigot connexions 9 through which are driven shearable pins 10. Holes 11 bored through each joint accommodate signal controlling wires 17, the breakage of which automatically sets the signals 33, 34 at danger and prevents their further operation.

The circuit of the signal controlling magnets 35, 36 includes a common lead 40 through the local battery 37. Leads 38, 39 connect the magnets with contact blocks 30 and 32. At each extreme position of the plunger 1 a circuit is completed over one of the magnets 35, 36 by way of the cross wires 17, and additional contacts completed by the stretcher bar when properly set.



3 figures, 8 claims.

Illustrated Notes—continued.

2064. 13 Sept. Arthur Latimer
McCREDIE and J. BRADY, New South Wales.

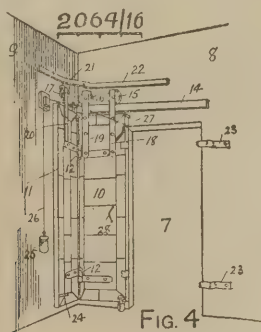
Class 88.4.

Fire-proof Door.

To enable a fire-proof door to be installed near the corner of a room, the door is provided with a hinged section which is operated by an overhead guide to fold along the side wall.

The hinged sections 10 and 11 have rabbeted meeting faces, and are supported by rollers 15—17 running on the inclined rail 14. The roller bracket 20 of the section 11 has an extension 21 which engages the curved guide 22 and causes the roller 17 to leave the rail, and the section 12 to fold back along the side wall 9.

The usual closing cleats 23 and a wedge 24, together with a safety releasing fuse 27, are provided.



6 figures, 4 claims.

2230. 2 Oct. H. BUTTON, Tasmania.

Class 57.2.

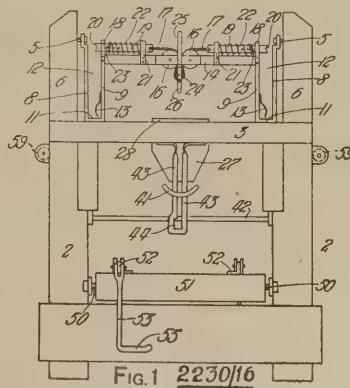
Packing Case Manufacture.

To minimize handling of the box during construction, the end pieces are spring held in cradles which are raised from the bench by a pedal and revolved by hand as each side is completed.

The cradles 8 are mounted above the bench 2, 3 on pins 5 in the movable bars 6. The end pieces are gripped by the springs 13 and spring grips 20 which are connected by a rope 17 to a draw-bar 25. An eye 26 in the draw-bar is engaged by a

cam-hook operated by depressing the counterbalanced knee-rest 41 to permit the box ends to be inserted in the cradles.

On depressing the pedal 55 the beam 51, which is linked to the cross-bar connecting the rods 6, is rotated and the rods elevated. The box may then be rotated to enable slats to be nailed to another side.



12 figures, 13 claims.

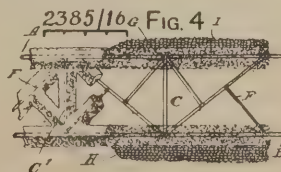
2385. 21 Oct. W. C. DAVIS, Victoria.

Classes 81.2; 81.8.

Reinforced Concreting.

To form ornamental rustic railings, fences, bridges, parapets, &c., rough-cast concrete is built up around a skeleton framing of reinforcing tubes and rods laid in a mould formed in the ground.

The frame of a fence panel, formed of tubes A and B, rods C, and wires F, is placed on the ground which is scooped out to form the mould bed. The frame is then removed and the mould is lined with concrete and the wire netting I, and the frame being replaced the concrete and netting are built up as required.



11 figures, 4 claims.

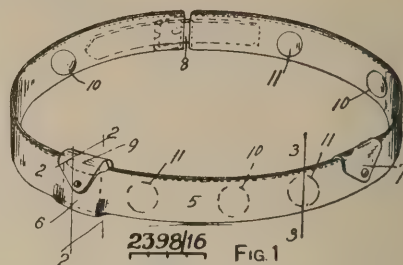
Illustrated Notes—continued.

2398. 24 Oct. D. ELIAS, assignee of
S. ZUMKOWSKI, act. inv., New South Wales.

Class 87.8.

Electric Belt.

A belt, formed by doubling leather or similar material, in which copper disks 10 and zinc disks 11, exposed to the body, are connected by insulated wires to the poles of a dry cell in the pocket 6. The pocket 7 may contain a switch.



4 figures, 2 claims.

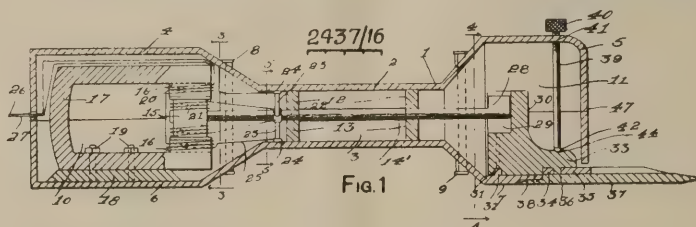
2437. 28 Oct. L. B. MYERS, Colorado, United States of America.

Class 37.6.

Sheep Shears.

A shearer's hand-piece in which the frame sections 4 and 6 are secured together by the bolts 8 and 9 and a rear chamber 10 is provided for the electric motor 17.

The armature 15 is connected to a commutator with brushes 23, and an eccentric 28 reciprocates the cutter carrier 33 beneath the ball-pointed tension screw 39.



6 figures, 7 claims.

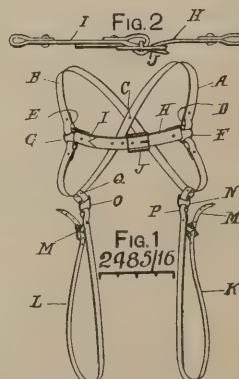
2485. 3 Nov. N. McL. MACFARLAN, Victoria.

Class 93.2.

Go-cart Safety Strap.

To dispense with the use of a waistbelt two diagonal back straps A, B are riveted together and secured to end rings F, G, which also carry short adjustable straps H and I.

Two dependent straps K and L are looped upon the rings N and O and fastened to the go-cart.



2 figures, 3 claims.

Illustrated Notes—continued.

2532. 10 Nov. E. PHILLIPS, *communicatee* of H. S. MILLS, *act. inv.*, Ill., U.S.A.

Classes 02.5; 02.2.

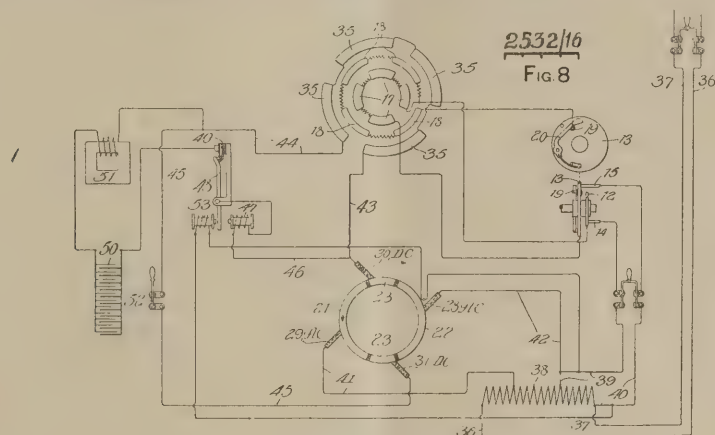
Rotary Rectifier.

A rectifier for battery charging, in which a synchronous motor is provided with a stator winding 35, two sets of rotor windings 17 and 18, and a two-part commutator having intermediate dead sections.

The running winding 17 is connected to the leads 36, 37 through the slip rings 12, 13 and an auto-transformer 38 which supplies current to the A.C. brushes 28, 29. The

stator winding 35 is connected to the D.C. brushes by wires 43, 44, and the batteries to be charged are coupled in series with an impedance coil 51 and a circuit breaker 48.

The commutator sections 21, 22 are separated by dead sections 23, while the brushes are inclined towards the direction of rotation. A cut-out fuse is mounted adjacent to the brushes 28.



8 figures, 6 claims.

2534. 10 Nov. A. E. DE GARIS, Vic.

Sec. 63A. Including cognate No. 2677/16.

Class 94.3.

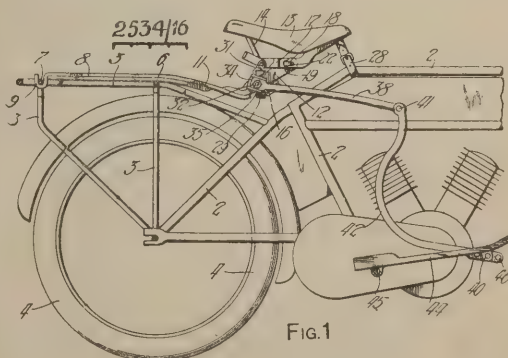
Cycle Seat Support.

To minimize shock the saddle pillar is replaced by a longitudinal laminated spring mounted upon the luggage carrier, and the foot-rests are connected to the front end of the spring.

The hook 9 of spring 8 engages the cross-bar 7 of the luggage carrier, the cross-bar 6 acting as a fulcrum. The spring is downturned at 11 and carries an extension 12 to which an ordinary saddle is secured by the pin and slot 22, 18. The upper member 38 of the foot-rest support is secured to the extension 12, and the lower member 42 is pivoted at 41 and carries the adjustable

foot-rests 44. By tightening the strap 28 the tension of the spring may be adjusted.

In a modification the spring is extended beneath the cross-bar 7 and is clamped to the cross-bar 6.



6 figures, 12 claims.

Illustrated Notes—continued.

2858. 20 Dec. MERRELL-SOULE COMPANY, New York, United States of America,
assignee of Irving Seaward MERRELL, act. inv.

Class 36.4.

Concentrating Food Products.

To ensure a uniform temperature throughout liquids such as milk, extracts, &c., during evaporation, the material is continuously fed to the bottom of a steam-jacketed vacuum chamber, vertical rotating beaters causing the liquid to ascend the sides in a spiral path and flow over the top in a thin film.

The concentrating vessel 7 is provided with a steam jacket 32 and vertical beaters 37 and 48 which are fixed to spiders 42 and 43 on the spindle 38. The liquid entering the bottom by the pipe 36 is thrown outwards by the beaters, and on rising up the hot walls 7 flows over the lip 17 to the discharge pipe 25. The steam rising into the

vessel 73 is condensed by a spray 75, and the vacuum is maintained by an air pump connected to the pipe 5. The discharge pipe 25 is connected to two receivers which are coupled to a pipe leading into the neck 72 and are filled and emptied alternately.

The concentrating chamber 1 is mounted on trunnions carried in blocks which can be lowered between the standards 90 by means of screwed rods 95. The jointing ring 58 is thus separated from the base of the neck 72, and the spindle 38 withdrawn from the socket 40. The vessel can then be swung over on its trunnions and the beaters removed to facilitate cleaning.

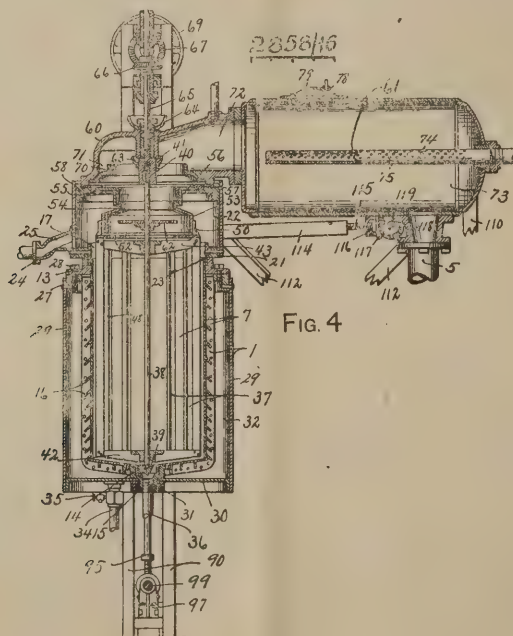


FIG. 4

10 figures, 17 claims.

Illustrated Notes—continued.

2859. 20 Dec. MERRELL-SOULE COMPANY, New York, United States of America, assignee of William Buell GERKE, act. inv. (deceased).

Class 36.4.

Modified Milk.

To adapt cow's milk for use by infants, cream and whey are added to increase the percentage of lactose and albumen and reduce the casein, the composition being then concentrated *in vacuo* and desiccated by spraying into a dry air chamber.

A soluble milk powder which is made by this process is free from bacteria and contains active enzymes; the composition being 18% butter fat; 57.8% milk sugar; 8.6% casein; 7.5% lact-albumen; 7.3% ash; and 1.2% moisture.

No drawing, 7 claims.

1917.

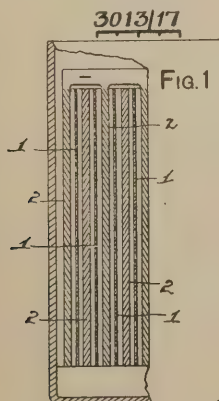
3013. 16 Jan. J. M. FLANNERY, Penn., United States of America.

Class 07.3.

Storage Batteries.

To ensure adequate circulation of the electrolyte without increasing the effective internal resistance, thin separators, loaded with radio-active material, are immersed in the electrolyte between the main plates.

The separators consist of plates 1, or envelopes of celluloid, pottery ware, &c., in which are embedded salts of radium which compensate for the increased internal resistance due to the separation of the battery plates 2.



2 figures, 5 claims.

3014. 16 Jan. J. M. FLANNERY, Penn., United States of America.

Class 07.3.

Storage Batteries.

To assist the circulation of the electrolyte without increasing the effective internal resistance, thin plates 1 of celluloid, pottery, mica, rubber, &c., coated with a salt of radium which is incorporated in solidifying material such as celluloid, are inserted between the main plates 2.

The coating may be applied by immersing the plates 1 in a solution of the radio-active material.

[See No. 3013/17 for illustration.]

2 figures, 4 claims.

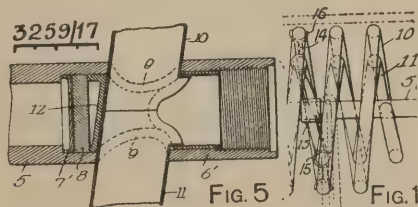
3259. 16 Feb. J. G. CHERRY COMPANY, assignee of S. J. VAN KUREN, act. inv., Iowa, United States of America.

Classes 36.3; 29.5.

Treating Milk.

To obviate the loss of space caused by air collecting in the upper parts of the coils of a rotary heat interchanger, as in 3260/17, two concentrically arranged helical pipes 10 and 11 are provided, and the opposed ends are secured in hollow metal reinforcements 12 sweated into each end of the shaft 5.

The central portion of the shaft is plugged to prevent the passage of fluids, by pouring a layer of lead 8 on a copper disk 7¹, and the coils are supported by arms 14 provided with sockets 15 and 16.



5 figures, 2 claims.

Illustrated Notes—continued.

3346. 24 Feb. A. GRIFFITH, *communicatee of THE FOUR WHEEL DRIVE AUTO COMPANY, assignee of P. J. F. BATENBURG, act. inv.*, Wisconsin, United States of America.

Class 95.9.

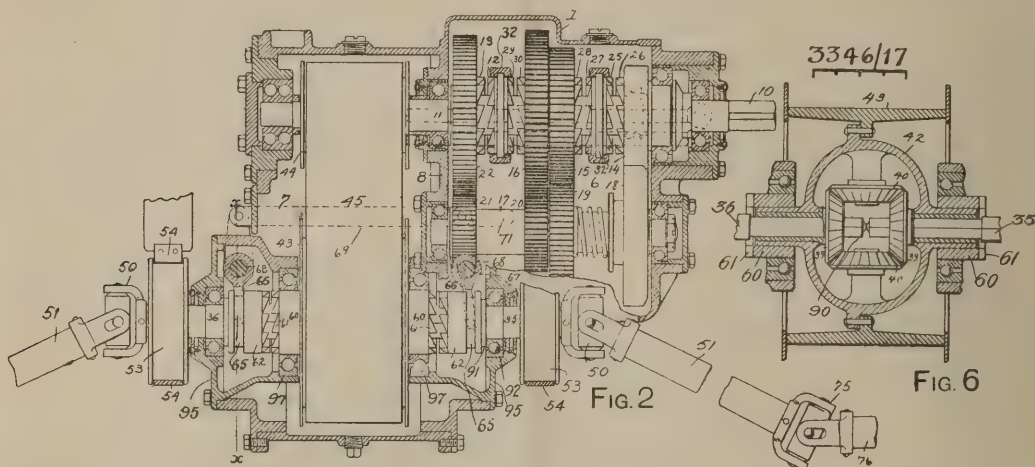
Power Transmission Mechanism.

To drive the four wheels of a car, an intermediate differential gear, which is coupled to the speed gear by a driving chain, is connected by independent clutches to the propeller shafts of the differential gears on the front and rear axles.

The casing 1 contains the change-speed gears and a main differential gear enclosed within a sprocket 43. The sprockets 43 and 44 are connected by a driving chain 45, and the partition 8 is made oil-tight to permit grease and oil to be used in the two compartments.

Clutches 62 sliding on the differential shafts 35 and 36 engage with teeth 61 on the casing 42, thus enabling the propeller shafts 51 to be driven by the differential pinions 39 and 40 or to be directly coupled to the casing.

The pinions 39 are provided with axial play on the shafts 35 and 36 which are fitted with abutting thrust members 90 and thrust rings 91 to relieve the gearing from shocks. The clutches are operated by a link 69, and the drums 53 mounted on the shafts 35 and 36 are provided with brake bands 54.



6 figures, 11 claims.

3572. 27 Mar. J. ROBINSON, S.A.

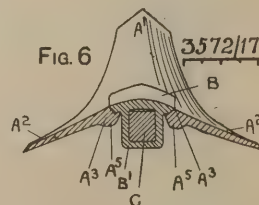
Class 30.3.

Cultivator Share.

To avoid obstructions to the passage of the earth over the face of a share blade fitted with interchangeable sockets B^1 for attachment to different implement feet, a countersunk recess A^3 is provided to bring the face B of the socket head flush with the face of the share A .

A strengthening rib A^5 is cast on each side of the socket hole, and the loop B^1 may

be dispensed with and a countersunk bolt passed through the foot C and the face plate B .



7 figures, 4 claims.

Illustrated Notes—continued.

3516. 21 Mar. THE GANE MILKING MACHINE COMPANY LIMITED, assignee of T. KIDD, *act. inv.*, New Zealand.

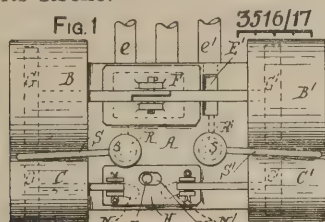
Class 36.15.

Milking Machine Pulsator.

A pulsator in which the cylinders operating the main distributing valve are controlled by auxiliary cylinders with regulating needle valves.

The main valve **F** is operated by the pistons **G** to connect the pipes **e** and **e'** alternately with the central vacuum pipe or the atmosphere. The rear ends of the cylinders **B** are connected by passages having ports controlled by an auxiliary valve **H** operated by the cylinders **C**. The auxiliary cylinders **C** are connected by tubes **S** to needle valves **s**, which are in turn connected to the main ports **E**.

The position of the needle valves will regulate the flow of air to and from the cylinders **C**, and thus determine the length of time the main valve will remain at each end of its stroke.



6 figures, 3 claims.

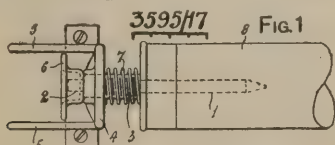
3595. 29 Mar. A. BENNET and T. H. REID, New Zealand.

Classes 78.6; 46.6.

Roller Blind.

To prevent overrunning, the roller pivot is provided with a non-rotary nut which compresses a friction spring as the blind is rolled up.

The pivot 2, which rotates in a bearing 6, has an enlarged screw-threaded portion 3. The nut 4, being prevented from rotation by the arms 5, compresses the spring 7 until the friction brings the roller to rest.



4 figures, 4 claims.

3688. 13 Apr. J. B. GRAHAM, N.Z.

Date applied for under Intercolonial Arrangements, 17th Nov., 1916, New Zealand, No. 38,150.

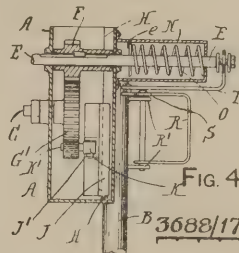
Class 90.7.

Windmill Head Gear.

To regulate the speed of a windmill having oil-bath block and slot reciprocating gear, the tail vane is operated by a crank connected to the sliding axle of the wind wheel.

The oil-bath casing **A** has a vertical rib **H** on which the slide **J** is reciprocated by the crank-pin block **K**. The connecting rod is attached to the top of the slide **J** by a pin which operates through a vertical slot in the rib **H**.

The tail vane is attached to a stirrup **R** which has a cranked arm connected by a rod **T** to the rear end of the wind-wheel axle **E**. The spring **O** bears against a pin **e** on the axle which is connected to the pinion **F** by a sliding feather.



7 figures, 6 claims.

3800. 27 Apr. UNDERWOOD TYPEWRITER COMPANY, assignee of L. S. BURRIDGE, *act. inv.*, New York, United States of America.

Class 50.4.

Typewriting Machine.

To increase the compactness of a traveller's typewriter the platen is lowered and the type-bars are shortened and set horizontally in radial slots cut in a curved frame.

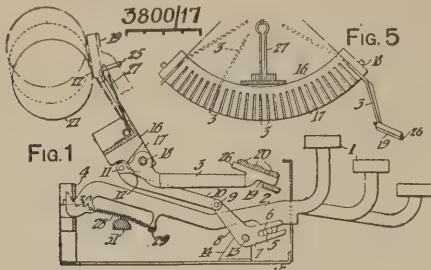
The key levers 2 are fulcrumed in the transverse bar 4 and are fitted with springs 28 which bear on a bar 31 to restore the keys to the normal position. The wrist-pins 5 engage slots in the bell-cranks 8, which are connected to the type-bar 3 by the links 10.

The type-bars are pivoted in slots 17, which are cut radially in a segmental frame 16, while the platen 21 can be moved into

[Continued next page.]

Illustrated Notes—continued.

register with either set of type 20. Extensions 26 on the heads engage with a spring 27 to start the type-bars back to their normal position.



6 figures, 11 claims.

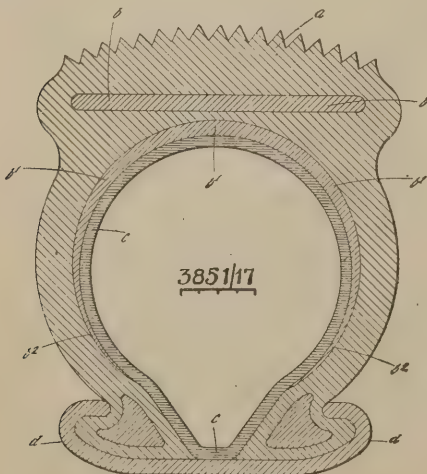
3851. 3 May. A. A. CROZIER, England.

Classes 97.89; 97.83.

Pneumatic Tyre.

To lessen the liability to puncture and increase the durability the tyre is reinforced with a band *b* and an internal cover *b*¹ of rawhide, from which the free oil has been extracted.

The oil is extracted by soaking the hide in benzol, and pressing to remove the liquid. The hide is then exposed to the air, rubbed with french chalk, and coated with a solution of chloroform and gutta-percha. It is then exposed to the air and pressed, and the gutta-percha surfaces are covered with a sheet of unvulcanized caoutchouc which is then covered with canvas impregnated with balata.



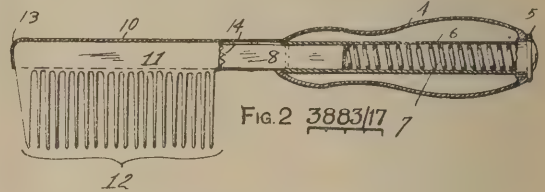
1 figure, 3 claims.

3883. 7 May. E. A. ELLIOTT, N.S.W.

Class 43.7.

Comb Holder.

To utilize broken combs the back is inserted in the channel of a socket 10 and is retained by the spring-pressed plunger 8.



2 figures, 3 claims.

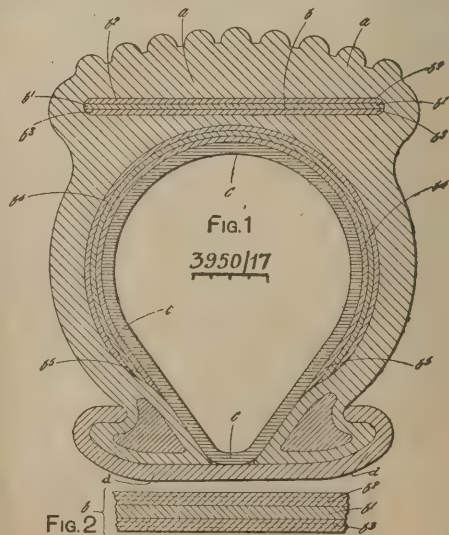
3950. 11 May. A. A. CROZIER, Eng.

Classes 97.83; 97.89.

Pneumatic Tyres.

To lessen the liability to puncture and to strengthen the cover the tread of the tyre is reinforced with an annular flat laminated band *b*, which consists of layers of caoutchouc *b*² reinforced with canvas, pure vulcanized caoutchouc *b*¹ without canvas, and balata *b*³ reinforced with canvas.

The layers are cemented together, and a feather-edged covering *b*⁴ of the same materials is secured to the inside of the tyre.



2 figures, 2 claims.

Illustrated Notes—*continued*.**4064.** 22 May. W. W. COE, *assignee*, and W. W. COE, jun., *act. inv.*, Mass., U.S.A.

Class 09.5.

Dye or Stain.

To produce a dye from bananas or plantains, the pulp, skin, or stalk of the fruit is treated with a hydrolizing agent.

The materials are treated with about five times the quantity of a 10% solution of acid or alkaline solution, and the resultant solution is partially neutralized so as to be slightly acid by mixing separately prepared

acid and alkaline solutions of the fruit materials.

Different colours are obtained according to the ripeness of the fruit and the part of the fruit employed. The colours may also be varied by addition of a metallic salt or iodine, or by treatment with tannin, alum, or other mordant.

No drawing, 8 claims.



Commonwealth Specifications.

The following Specifications are now on sale :—

1904-10.

1 to 20,337, Vols. 1 to 102, complete with title pages, &c.

1911-15.

1 to 7599, Vols. 103 to 140, complete with title pages, &c.

7600 to 7799, Vol. 141, incomplete.

7800 to 8599, Vols. 142 to 145, complete with title pages, &c.

8600 to 14,445 and all subsequent accepted Specifications.

13,932. Macnicol. Amended Specification.

The following Specifications, acceptance of which was advertised in *Official Journal* of the 7th August, 1917, are now printed and on sale :—

1916.

1061. O'Neill.

1349. Barsby.

1593. Alchevsky.

1601. Phillips & Keller.

1606. Hill.

1610. Duigan.

1630. Burrows.

1650. Pollock.

1667. Fetting.

1687. O'Brien & O'Brien.

1730. Ball.

2030. de Whalley & de Whalley.

2045. The Konomax Rock Drill Synd. Ltd.
(Mauss).

2116. Eager & Jackson.

2536. Heane.

1917.

3088. Smith & Taylor.

3134. Sivyer.

3210. Meister.

3319. A/S Vestlandske Bliktrykkeri Og
Mekaniske Verksted (Jenssen).

3557. McMaster.

3710. Miller & Irlam.

2969. Heane. Cognate sheet.

3841. Hingston & Shuker.

3934. O'Farrell.

3956. Lassen & Hjort.

3972. The Mills Equipment Co. Ltd. &
Lethern.

3973. The Mills Equipment Co. Ltd. &
Lethern.

Further particulars will be found in the Illustrated Notes, pages 748 to 758 of Vol. 26.

A list of Patent Offices and Libraries at which Printed Specifications are placed for *free* public inspection is given with the first list of each quarter.

Complete sets of Printed Specifications may be obtained from the Government Printer, Melbourne, at 4d. per copy delivered over the counter. Specifications relating to one Group of manufacture, in order as issued, or such of the Specifications (in one Group) as may be selected from those already published, until 80 copies have been supplied, may be obtained on depositing £2. Parcels of 30 Specifications may be purchased at £1. Postage should be added to cheques if parcels are desired to be forwarded by mail. Single copies of Specifications, 1s. per copy, post free.

Printed Specifications are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Applications for Letters Patent for the period 1904 to 1910 were numbered from 1 to 20,337; for the period 1911 to 1915 from 1 to 18,302; a new series of numbers was commenced on the 1st January, 1916. To avoid confusion when purchasing Specifications, the **number**, **year**, and **name** of applicant for Letters Patent should be quoted.



Letters Patent Sealed.

Applications for enlargement of the time for payment of the renewal fee may be made on Form P.

The page and year quoted in last column refer to the Journal in which the notice of acceptance of Complete Specification was published.

Names of actual inventors, communicators, assignors, &c., who are not grantees, are added in parentheses after the name of the grantee.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1916.				
<i>14th August, 1917.</i>				
305	14 Feb.	W. H. Popplestone (R. H. Popplestone)	Rainproof garments ...	166/17
1094	25 May	Amelia McPherson & R. W. Conn	Swings ...	387/17
1346	26 June	H. & A. Rose ...	Spring metal seats ...	387/17
1915.				
1810	31 Aug.	E. R. Weidlein ...	Treating copper ores ...	387/17
2387	21 Oct.	W. A. Carson ...	Washing dishes ...	387/17
1917.				
2975	11 Jan.	Metal Corrodors Ltd. (A. T. Eyton & F. J. Henderson)	Drenching and draining material ...	387/17
2997	15 Jan.	W. Taylor ...	Sawing glass ...	387/17

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

(Names in parentheses indicate actual inventors, &c., who are not applicants.)

No.	Date of Application.	Name of Applicant.	Abbreviated Title.	Page and Year.
1916.				
33	10 Jan.	J. A. Shearer ...	Resilient tyre ...	11/17

Assignments Registered.**1912.**

4341. "Beverage extracts."

Assignment of whole interest *by* POSTUM
CEREAL Co. LIMITED *to*POSTUM CEREAL COMPANY. Registered
14th Aug., 1917.**1916.**1616. "Improvements in artificial arms,
and the fittings therefor."Assignment of the whole of Richard
William BRICKELL'S interest in these Letters
Patent *made by* the said Richard William
BRICKELL *to*Peter Murray McKAY. Registered 9th
Aug., 1917.**Renewal Fees Paid.***(Names in parentheses indicate original grantees.)***1910.**

No.	Name.	Abbreviated Title.	Paid up to—
18,224	Western Electric Co. Ltd. (American Automatic Tele- phone Co.)	Automatic telephone exchange	... 15th June, 1924
18,904	Swinton, T. McG. ...	Stable manger ...	... 9th Aug., 1924
18,950	Cambridge, A. S. ...	Producing gas ...	... 11th Aug., 1924
19,002	Shepperson, R. E. ...	Teat cup ...	... 15th Aug., 1924
19,125	Bronner, A. F., & Quick, A. A.	Speed gear ...	... 26th Aug., 1924

1911.

1358	Walker, H. M., & Middleton, W. H.	Making air gas ...	... 1st June, 1925
1620	Minerals Separation Ltd. ...	Ore concentrate ...	... 11th Aug., 1924

Patents Void through Non-payment of Renewal Fees.

(Names in parentheses indicate original grantees.)

1909.

No.	Name.	Abbreviated Title.	Patent Censed.
15,351	Weir, P. ...	Aerial machine ...	9th Aug., 1916
15,356	Sanderson, J. B. ...	Clothes peg ...	9th Aug., 1916
15,357	Brady, E. P. & J. F., jun. ...	Turbine ...	9th Aug., 1916
15,359	Duggan, W., jun. ...	Door closing apparatus ...	9th Aug., 1916
15,360	Junod, C., & Meyer, A. ...	Selling machine ...	9th Aug., 1916
15,361	Baldwin, J. J., jun., Baldwin, H., & Jackson, I. ...	Chaff-cutter blade ...	9th Aug., 1916
15,364	Maggiara, D., & Sinclair, M. ...	Producing sound ...	9th Aug., 1916
15,368	Resinelli, F. ...	Furnace ...	10th Aug., 1916
15,371	Johnston, W. T. ...	Adjusting speed governors ...	10th Aug., 1916
15,372	Geary, F. W. ...	Tank overflow ...	10th Aug., 1916
15,376	Olsson, E. ...	Artificial rain ...	10th Aug., 1916
15,381	Gayner, T. H. B. ...	Inflatable article ...	11th Aug., 1916
15,386	Fordham, H. A. ...	Garden steps ...	11th Aug., 1916
15,388	Baker, G. H. M. ...	Sawing device ...	11th Aug., 1916
15,389	Zivicky, J. ...	Fire-engine ...	11th Aug., 1916
15,390	Albrecht, F. J. ...	Milk can ...	11th Aug., 1916
15,394	Hughes, R. L. ...	Sheep shearing machine ...	11th Aug., 1916
15,398	Beer, A. C. ...	Stump avoiding device ...	12th Aug., 1916
15,399	Richardson, W. H. ...	Gold saving table ...	12th Aug., 1916
15,401	Gladman, F. B. ...	Copyists' indicator ...	12th Aug., 1916
15,405	Bunet, P., Badin, A., & Compagnie des Produits Chimiques d'Alais et de la Camargne ...	Oxygen compound ...	12th Aug., 1916
15,406	Marks, H. J. ...	Coupling appliance ...	12th Aug., 1916
15,408	Abrams, L. G. ...	Millet broom ...	12th Aug., 1916
15,409	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Cutting out sheet material ...	12th Aug., 1916
15,410	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Presses ...	12th Aug., 1916
15,411	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Presses ...	12th Aug., 1916
15,415	Turri, G. G. ...	Concentrating apparatus ...	12th Aug., 1916
15,417	Condy, J., & Fisher, J., jun. (Condy, J.)	Cooking utensil ...	13th Aug., 1916

Patents Void through Non-payment of Renewal Fees—continued.**1909.**

No.	Name.	Abbreviated Title.	Patent Ceased.
15,420	Furniss, W. A.	Adjuster for pipe laying	... 13th Aug., 1916
15,424	McMillan, J. G. & J.	Silo... ..	... 13th Aug., 1916
15,425	Burgess, E. E. (Bayston, W. S.)	Fume neutralizer	... 13th Aug., 1916
15,427	Snell, L.	Oil distribution	... 13th Aug., 1916
15,429	Taylor, J.	Coal waggon	... 13th Aug., 1916
15,431	Johnson, W. A.	Broom	... 13th Aug., 1916
15,432	Simpitrol Lighting (Australasia) Ltd. (Pill, N. W.)	Inflammable gas production	... 13th Aug., 1915

GEORGE TOWNSEND,

Commissioner of Patents.

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Patents, Trade Marks, and Designs Acts are on sale at the Government Printing Offices in Sydney, Brisbane, Adelaide, Perth, and Hobart.

Printed Specifications of Inventions and Regulations under Patents, Trade Marks, and Designs Acts are on sale at the Trade Marks Sub-offices; at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

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Patents, Trade Marks and Designs Act (No. 2) 1914	...		6d.
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Commonwealth of Australia Gazettes—Patent Office Special Numbers.			
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Classification of Manufactures and Word Index (edition of 1916, 280 pp.)	...		2s. 6d.
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Vol. 12, 1910	Vol. 13, 1910		

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Application Forms according to the Schedules to the Patents Act 1903-1909, Trade Marks Act 1905-1912, Designs Act 1906-1912 and the Patents, Trade Marks and Designs Act 1914-1915, may be obtained on application at the Department of Patents, Second Floor, Railway Buildings, Flinders-street, Melbourne.

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u7
p2
Vol. 26.]

1917.

[No. 32.

Tuesday, 28th August.

[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

THE
Australian Official Journal
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Notices.

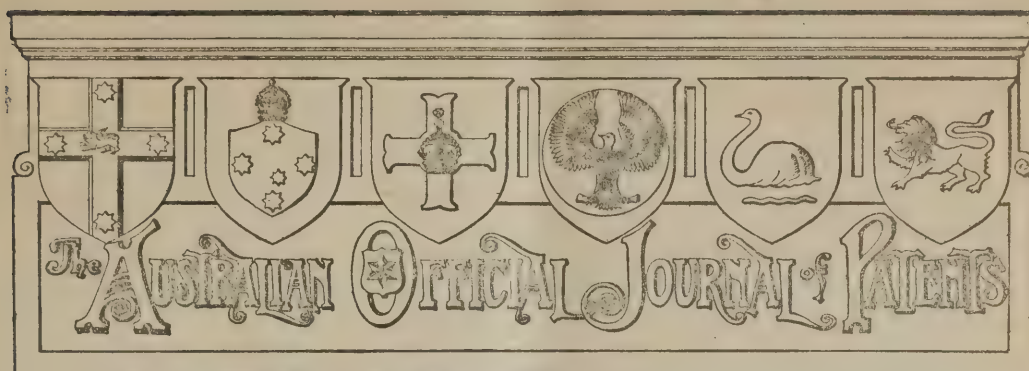
Applications Received, 4914 to 4974.
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28TH AUGUST, 1917.

[No. 32.]

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NOTICES.

Patents Act 1903-1909.

NOTICE is hereby given that JAMES ROBINSON, of Britannia Foundry, Gawler, in the State of South Australia, Commonwealth of Australia, Iron and Steel Founder, has presented a petition to the High Court of Australia praying that an order may be made for the extension of his patent No. 552, Commonwealth of Australia, granted to him for "Improvements in and relating to shares for scarifiers cultivators and like implements." And notice is hereby further given that the said petition was filed in the South Australian Registry of the High Court of Australia on the 4th day of August, 1917; and that the address for service of the said James Robinson is the offices of Poole and Johnstone, Solicitors, Register Chambers, Grenfell Street, Adelaide, in the State of South Australia. Dated this 7th day of August, 1917.

JAMES ROBINSON.

NOTICES—*continued.***WARNING TO THE PUBLIC.**

The Public are notified that entries in the *Australian Official Journal of Patents* under the headings :—

Applications with Provisional Specifications Lapsed.

Applications with Complete Specifications Lapsed.

Applications with Complete Specifications (open to public inspection) Lapsed.

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

Patents void through non-payment of Renewal Fees.

must not be accepted as final, as under Regulations 7 and 8 of the Patents (Temporary) Regulations 1914 the Minister or the Commissioner may in certain cases defined in the Regulations extend the time prescribed by the *Patents Act* 1903-1909 for doing any act or filing any document.

The Patent Office will furnish, on request accompanied by the prescribed search fee of One Shilling, definite information, so far as possible, as to the position of any particular Application or Patent.

Application for Restoration of Lapsed Patent under Section 85A.

NOTICE is hereby given that GEORGE HERBERT BAILEY, late of Emu Flat, Majors Creek, but now of Rouse Hill, New South Wales, Commonwealth of Australia, Police Constable, has made application for the restoration of the Patent granted to WILLIAM BOUND and GEORGE HERBERT BAILEY for an invention entitled "Improvements in and relating to the manufacture of gloves from rabbit skins and other like skins," numbered 11,129, and bearing date the 25th day of March, 1908, which expired on the 25th day of March, 1915, owing to the non-payment of the prescribed renewal fee.

Any person may give notice of opposition to the restoration of the said patent by leaving Form G2, together with the prescribed fee of £2, at the Patent Office, Melbourne, on or before the 14th day of November, 1917. See *Patents Regulations* 1912, Regulations Nos. 34 to 39 inclusive.

GEORGE TOWNSEND,

Commissioner of Patents.

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Classification and Word Index, 1916.

A revised edition of the Classification of Manufactures and of the Word Index thereto is now ready and on sale at the Government Printing Office, Melbourne, price Two Shillings and sixpence, post free.

COMMONWEALTH.

PROCEEDINGS UNDER THE "PATENTS ACT 1903-1909."

List of Applications for Letters Patent received from 16th to 22nd August, 1917.

The abbreviations "Prov." and "Comp." after the numbers indicate respectively that a Provisional or Complete Specification was lodged with the Application.

Thursday, 16th August.

4914. *Prov.* Frederick Arthur ALCOCK—
"Improvements in the construction of
billiard tables."

4915. *Prov.* Howard William IRELAND—
"Improved plant support."

4916. *Prov.* James Dowson JACKSON—
"Improvements in and relating to
water heaters."

4917. *Prov.* John Bretnell CRUMP—
"An improved attachment for driving
potato planters and other seed
sowers carried by single furrow
ploughs."

4918. *Prov.* Isaac SUTHERLAND—
"An electric light switch control—a
mechanical device to operate an
electric light switch from a dis-
tance."

4919. *Prov.* Joseph BENNETTS—
"Improved door lock."

4920. *Prov.* Arthur James COLLIER—
"An improved air-gas generator."

4921. *Prov.* John Thomas BROGAN—
"An improved cheese crate."

4922. *Prov.* Edmund Jeremiah WIL-
SON—
"A combination hand appliance for
tailing and castrating lambs."

4923. *Prov.* William DANIELS and
Nicholas LEYBOURNE, junior—
"Improved means for corralling rab-
bits."

4924. *Prov.* Francis Basnett LIGGINS
and Ernest CANNING—

"Improvements in totalling attach-
ment for typewriting machines."

4925. *Prov.* Arthur Alexander EATHER
and Alexander Nicholas EATHER, *act. invs.*,
nominees of Ivo Mack EATHER and John
Thomas EATHER, *act. invs.*—

"Improvements in machine guns."

4926. *Prov.* Lionel William DUKES and
George Henry GRAHAM—

"Improved rotary iron clad, overload
electric circuit breaker."

4927. *Prov.* Friedrich Ihnke Georg
GRAF—

"Hinged conduit fittings."

Friday, 17th August.

4928. *Comp.* JAMES CAMPBELL AND SONS
LIMITED, *assignee of* Neil CAMERON, *act.*
inv.—

"Improvements in glass bevelling
machines."

4929. *Prov.* Timothy Edward RALEIGH—

"An improved apparatus for use in
pickling seed wheat and other
grain."

4930. *Prov.* Thomas David SMITH, *act.*
inv., and Thomas GARRETT and Paul Jenner
URE, *assignees*—

"An improved method and a device
not requiring centrifugal force to
operate it for governing the speed
of mechanisms acquiring rotary
motion."

4931. *Prov.* Thomas David SMITH, *act.*
inv., and Thomas GARRETT and Paul Jenner
URE, *assignees*—

"Improved rotary fly trap."

Applications received, 16th to 22nd August—continued.

4932. *Prov.* Thomas David SMITH, *act. inv.*, and Thomas GARRETT and Paul Jenner URE, *assignees*—

"An improved fly trap of the maze type."

4933. *Prov.* Henry John Sealy HUNGERFORD—

"Wire cutting bayonet attachment or wire cutting bayonet."

4934. *Prov.* Henry WALSH—

"Improvements in folding chairs."

4935. *Prov.* Julius Nelson ELLIS—

"Improved feed-water regulating valve for steam boilers."

4936. *Prov.* Robert McMULLAN—

"Improved propeller and tractor."

4937. *Prov.* Daniel JAMES and Barnett Hugh JENKINS, *act. invs.*, and Clifford PEACOCK, *assignee*—

"An improved combined washing and wringing machine."

4938. *Prov.* ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA PROPRIETARY LIMITED, *assignee of* Herbert William GEPP, David AVERY, and Willard Conrad SNOW, *act. invs.*—

"Improvements in the treatment of zinc solutions preparatory to the recovery of zinc by electro-deposition."

4939. *Prov.* ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA PROPRIETARY LIMITED, *assignee of* David AVERY and Rowland Thomas Dryll WILLIAMS, *act. invs.*—

"Improvements in the treatment of zinc solutions preparatory to the recovery of zinc by electro-deposition."

Saturday, 18th August.

4940. *Prov.* Albert Edward WALTERS and Tom RODGERS—

"Improvements in incandescent kerosene lamps."

4941. *Prov.* Frederick William Edmund GABRIEL, Walter Edward SCOTT, and William WATERS—

"Improvements in totalisators."

4942. *Prov.* William Charles ROWE—

"Improvements in and connected with fuel feeding devices for furnaces."

4943. *Prov.* George TENNANT—

"Improvements in the mode of grooving and bevelling roofing boards whereby unseasoned jarrah and other Australian hard woods can be employed."

4944. *Prov.* Charles TOWNSEND—

"An improved life-saving guard adaptable to the front of moving vehicles."

4945. *Comp.* Richard Wilbraham SMYTH and William Thomas HAINSWORTH—

"Improvements in powder distributors and the like."

4946. *Prov.* Harold Wissenden MOORE and Temple BRYNE—

"An improved plastic mixture for use in fixing glass panes, for filling up small holes in surfaces, and the like purposes."

4947. *Prov.* Harry Louis MEHDEN—

"Greaseless cake tin."

4948. *Prov.* John Milne CURRAN—

"An improved specific dip or spray for inhibiting and destroying parasitic and mycotic infection in the skins and wool of living animals."

4949. *Comp.* Edgar Naunton DAVIES—

"Improvements in adjustable pressure regulating valves for compressed gases."

4950. *Prov.* Robert David WILLIAMS—

"Ball and socket turning tool."

Monday, 20th August.

4951. *Prov.* John MILES—

"Twin wheel worm drive for motor cycles, tri-car or side-car machines."

4952. *Prov.* James DEVINE—

"A device for ascertaining and indicating the presence and position of stationary marine mines."

Applications received, 16th to 22nd August—continued.

4953. *Prov.* Edwin Douglas THOMSON—
“Bench electric soldering-iron heater.”

4954. *Prov.* Alfred Henry TAYLOR—
“Improvement in certain conveyors for the counting and recording of the travelling bucket or platform loads.”

4955. *Prov.* John Joseph PLASTO and Cecil William SQUIRES—

“Improvements relating to the headlights of motor vehicles.”

4956. *Comp.* John HINES—
“Improvements in and connected with draft equalizing attachments for animal drawn vehicles or loads.”

4957. *Prov.* Henry Croker GARDE—
“An improved operating table.”

4958. *Prov.* Harry EASTMAN—
“Improvements in mechanically operated burglar alarms.”

4959. *Comp.* Michael Godfrey ORTT—
“Improvements in chaff bagging machines.”

4960. *Prov.* William MORRISSEY—
“An improved machine for destroying prickly pear.”

4961. *Prov.* Nathan BORCHARDT—
“Improvements in packing cases to render detectable the opening thereof.”

Tuesday, 21st August.

4962. *Prov.* Mary Ann PEACOCK—
“An improved soldering compound and method for same.”

4963. *Prov.* Arthur Stephens CHARLTON—
“A device for feeding grain into a crusher or cracker, so that only a limited quantity rests on the roller at once.”

4964. *Prov.* Joseph Harry Glen BLACK—
“An improved mouse proof corner plate for galvanized iron structures.”

4965. *Prov.* Cecil Woods LE PLASTRIER, *communiquee* of James McCorkindale ARNEIL, *act. inv.*—

“Improvements in and connected with air heating apparatus.”

4966. *Prov.* Charles Sylvester BRADLEY—
“Improvements in reaper thrashers or headers.”

Wednesday, 22nd August.

4967. *Prov.* Donald McKINNON—
“Improvements in potato planter feed mechanism and the like.”

4968. *Prov.* Elias MULLINGER—
“An improved baitless trap for rats and other like vermin.”

4969. *Comp.* John MAY—
“Improvements in stump jump cultivators, ploughs, and scarifiers.”

4970. *Comp.* James Clason GATES, *assignee* of Albert Edward SHIRLOW, *act. inv.*—

“An improved flyer attachment for printing, waxing, cutting and the like machines.”

4971. *Prov.* Reginald Stevens CAREY, *act. inv.*, and Joseph FREEMAN, *assignee*—
“Improvements in means for attaching wooden ornaments to articles of furniture.”

4972. *Prov.* Archibald ROGERS—
“A disc sharpener for attachment to ploughs and the like.”

4973. *Prov.* William James CALLAWAY and John GRIST—
“Improved crutch.”

4974. *Prov.* Frank Ernest George POWELL—

“Improved method of and means for flashing chimneys at their meeting parts with the roof.”

Provisional Specifications Accepted.

*Names in parentheses indicate actual inventors, &c., who are not applicants.
Italics indicate that some amendment has been made.*

1916.

2416. Tate, W. R., & Park, A. V. *Improvements relating to the discharge of liquids from vessels or containers.*

1917.

3880. Moyle, R. J. *Fastening band for packing cases.*
4119. Leslie, R., & Hanlon, T. *Improvements in and relating to the opening of windows and the like.*
4194. Amalgamated Wireless (Australasia) Ltd. (Marconi's Wireless Telegraph Co. Ltd., assignee of Pletts, J. St. V.). *Wireless telegraphy.*
4287. Bingham, D. *Spring-tooth seed drill.*
4288. Snell, Laura M. *An improved means for fastening sanitary paper to closet seats.*
4472. Tickner, F. M. *An apparatus for cleansing honey frames, wax, and the like.*
4481. Clarke, Pauline Rosalima. *Knitting needle.*
4483. Morter, G. E. *Thrust box for shafting.*
4488. Bradshaw, F. W. *Manufacture of coal gas.*
4496. Christie, C. G. C. *Severing of electric light bulbs.*
4507. Morgan, D. *Vacuum or compression apparatus.*
4519. Collin, G. H. *Improvements relating to protective nets or like structures employed on ships for resisting torpedo attacks.*
4567. Michell, A. G. M. *Determining the viscosity of fluids.*
4568. Halligan, J. P., & Breheny, T. *Filtering beer.*
4569. Garbutt, J. H. *Perambulator wheels.*
4578. Alkin, T. T. *Combination bag and lamp.*
4579. Clay, E. *Mattress shoes and attachments for bedsteads.*
4589. Mitchell, A. *Short range quick-firing guns.*
4594. Martyn, T. H. (Martyn, W. H.). *Feeding fuel to rotating cylinder combustion engines.*
4595. Martyn, T. H. (Martyn, W. H.). *Water packing for reciprocating engines.*
4597. Montgomery, P. W. *Tandem two-stroke combustion engine.*
4598. Batten, H. E. *Valves for combustion engines.*
4609. Hunter, Ernest Charles James. *Artificial flowers.*
4673. Martyn, T. H. (Martyn, W. H.). *Governor for gas engines.*
4674. Martyn, T. H. (Martyn, W. H.). *Governor for gas engines.*
4688. Morris, J. *Combined couch and hat-box.*
4689. Crossley, W., & Lestrangle, H. *Fuel economizer for combustion engines.*
4702. Jones, E. F. *Swivelling lamps of motor-cars.*
4709. Taylor, T. A. (Sapetti, G.). *Containing components of furniture.*
4714. Biggers, F. H. *Detecting and extinguishing fires.*
4718. Gilberthorpe, G. L. *Latches for doors, &c.*
4726. Royle, A. E. *Propulsion of ships and flying machines.*
4728. Bryce, J., & Williams, S. F. *Mops and scrubbing brushes.*
4731. Johns, J. H., & Killworth, W. G. *Button fastener for doors.*
4736. Taylor, Myra J. *Destruction of rodents.*
4737. Ferrier, J. *Internal combustion engines.*
4739. Langley, W. H., & Hanton, P. S. *Water heater.*
4740. Apted, F. *Reinforcement of clothes-pegs.*
4744. Sharpe, R. *Singeing appliance.*
4745. Kelly, J. *Ploughs and cultivators.*
4746. Canning, R. M. *Roofing for buildings.*
4748. Morse, T. R. *Band brakes.*
4750. Hokin, H. R. & W. A. *Advertising signs.*
4751. Bland, H., & L. N. *Unsinkable ship.*
4753. Martin, P., & Dare, L. C. *Transport of merchandise.*
4756. Prismall, W. J. *Volatilizing appliances for combustion engines.*
4770. Bennetts, J. *Window lock.*
4771. Lloyd, J. W. H., & Cawsey, F. R. V. *Clothes-peg.*
4773. Duncan, H., & Wilson, D. B. *Picture hanging bracket.*
4778. Hocking, F. H., & Pearson, A. W. *Dynamo-battery ignition rectifier.*

Provisional Specifications Accepted—continued.**1917.**

4782. Brice, E. Destroying rats and mice.
 4786. Wolskel, A. Treatment of gold in phosphatic ores.
 4794. Gooda, M. A. Wire strainer.
 4796. Buck, J. Envelopes.
 4802. James Martin & Co. Ltd. (Glynn, D. F.). Forging machine.
 4806. Jupe, W. E. Bolt-nutting machine.
 4808. Lace, D. P., & Batchelder, E. G. Collapsible bassinet.
 4813. Stephens, W. Hat and coat hooks.
 4815. Armstrong, C. L. O. Clamping device.
 4824. Mahood, S. J. Animal trap.
 4829. Beswicke, H. A. Grinding knitting needles.

Corrigendum.**1917.**

In Vol. 26, No. 31, page 793, under heading "Provisional Specifications Accepted," for 3696. Coop, T., read 4696. Coop, T.

Complete Specifications lodged after Provisional Specifications.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. The date following the title is that on which the Complete Specification was lodged.

1916.

1916. William James CONNELL—
 "An improved attachment to crutches for minimizing concussion." 13th Aug., 1917.
 1974. Oswald Arthur Edward DORHAUER—
 "An improved towel rack." 5th July, 1917.
 2353. Leslie Vickery WATERHOUSE—
 "Improvements in and relating to the treatment of sulphide ores and sulphides by flotation." 14th Aug., 1917.
 2397. Robert Rinhold RUSSACK—
 "Improvements in weather checks for doors." 20th Aug. 1917.
 2544. Frank TAYLOR—
 "An improved resilient wheel." 15th Aug., 1917.
 2608. John Blackwell CROWTHER—
 "Sanitary conveniences." 18th Aug. 1917.
 2611. Edward BALDWIN—
 "Improvements in and relating to resilient tyres for vehicle wheels." 20th Aug., 1917.
 2627. Seth FERRY—
 "An improved record printing totalisator." 21st Aug., 1917.
 2672. John George CARRETTE—
 "Improved folding lounge." 20th Aug., 1917.
 2743. MINERALS SEPARATION AND DE BAVAY'S PROCESSES AUSTRALIA PROPRIETARY LIMITED, assignee of James HEBBARD, act. inv.—
 "Improvements in apparatus for the concentration of sulphide ores." 16th Aug., 1917.

1917.

3963. Frank FLEW—
 "Improved method of roof covering with improved method of attachment." 16th Aug., 1917.
 4272. Leslie DRUMMOND and Leonard Milton DRUMMOND—
 "Top for tooth powder containers." 16th Aug., 1917.

Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn.

Names in parentheses indicate actual inventors, &c., who are not applicants.

1916.

Lapsed.

- | | | |
|---|--|---|
| 2006. Reid, Helen | 2343. Corrie, A. | 2364. Duggan, E. |
| 2321. Murray, J. | 2344. Smith, C. E. E. | 2365. Batten, H. E. |
| 2322. Burton, W. B. | 2347. Friden, C. M. F. | 2369. McDonald, J. C. |
| 2325. Nuttall, R. | 2348. Barrett, S. G. | 2372. Hill, G. |
| 2329. Blair, W. J. | 2349. Gilberthorpe, G. L. | 2373. Hume, W. R. & E. J. |
| 2330. Gilruth, J. G. | 2350. Mackway-Jones, A. | 2376. McDonald, J. C. |
| 2331. Parry, J. T. S. | 2354. Banks, P. | 2379. Bailey, W. & Daniell, C. E. |
| 2333. Hele, J. | 2356. Grant, B. J. St. A. | 2382. Alvin Taylor Ltd. (The H. & N. Car-buretor Co., Inc.—Hawxhurst, J. J. jun., & Nicolai, E. F.) |
| 2334. Germein, S. G. | 2357. Taylor, L. C. | |
| 2335. Garbutt, J. H. | 2359. Fitzgerald, T. G., & Croft, A. H. (Payne, W. H.) | |
| 2340. Rogers, W. J., & Seymour-Munn, S. | 2360. Hawken, D. A. | |
| 2341. Warburton, G. H. | 2361. Gray, A. G. (Kinnes, G.) | |
| 2342. Krog Railway Safe-guards Ltd. (Krog, C. J.) | 2363. Hall, A. W. | |

Applications with Complete Specifications (not open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. Names in parentheses indicate actual inventors, &c., who are not applicants.

1915.

Lapsed.

- 17,886. Hodges, R. A.

1916.

1024. Charley, W. G. & J. J.
1033. Gilding, J. F.
1050. Jordan, E.
1051. Saunders, A. F.
1053. Ince, H. G.

Specifications open to Public Inspection before Acceptance,

UNDER SECS. 121 AND 122, "PATENTS ACT 1903-1909."

The specifications may be inspected at the Patent Office, Melbourne, on payment of the search fee of One Shilling in respect of each Application.

Typed copies of specifications will be supplied at Sixpence per 100 words (minimum charge, One Shilling).

Sun prints of drawings will be supplied at One Shilling per foolscap folio sheet (8 inches x 13 inches).

Fees must be tendered in cash or postal note or in money order, payable to the Commissioner of Patents, Melbourne.

1917.

3980. Ernest Moss.

[Date applied for under Intercolonial Arrangements, 10th May, 1916, being date of application in New Zealand, No. 37,450.]

"Improvements in and relating to postal franking machines."

4798. Axel Rudolf Konrad DJURSON.

[Date applied for under International or Intercolonial Arrangements, 22nd Aug., 1916, being date of application in Sweden, No. 1829/16.]

"Improvements in automatic slack adjusters for railway brakes and the like."

4441. Gunnar Roos.

[Date applied for under International or Intercolonial Arrangements, 23rd Aug., 1916, being date of application in Sweden, No. 42,105.]

"Improvements in the governing of the fuel-injection in internal combustion engines."

4852. Julia Hannah CROOK and John Edward CROOK.

[Date applied for under Intercolonial Arrangements, 23rd Aug., 1916, being date of application in New Zealand, No. 37,824.]

"Improvements in window construction."



Complete Specifications Accepted.

OPEN TO PUBLIC INSPECTION AT THE PATENT OFFICE, MELBOURNE.

SEARCH OR INSPECTION FEE—ONE SHILLING EACH.

Notice is hereby given that all persons interested in opposing the grant of a Patent on any one of the following applications may, at any time within three months from the date of this Journal, or within such further time not exceeding one month as may on application made within such three months be allowed, give notice at the Patent Office, in Form G, which must be accompanied by the fee of £2, tendered in cash or postal note or in money order.

Within fourteen days after the lodging of the notice of opposition, or within such further time as the Commissioner allows, the opponent shall leave at the Patent Office declarations and copies thereof in support of his opposition, and forthwith after the receipt thereof the copies shall be transmitted by the Commissioner to the applicant.

Failure by an opponent to lodge declarations shall be deemed intentional abandonment of the opposition.

1916.

- 600. Flint. Artificial rubber.
- 1115. Cliffe. Cane harvester.
- 1311. Lamson Store Service Co. Ltd. (Miller). Dust extractor.
- 1523. Jones & MacDonald. Coke retorts.
- 1790. The British United Shoe Machinery Co. of Australia Pty. Ltd. (McFeely). Pulling-over machine.
- 1791. The British United Shoe Machinery Co. of Australia Pty. Ltd. (Sayer, Gouldbourn, & Jerram). Fastener inserting machine.
- 1797. Mephram. Cultivator.
- 1881. Bauld. Paint brush.
- 1897. Simpson. Domestic boiler frame.
- 1939. Walsh (Wood). Credit file.
- 2594. Garin (Perreur-Lloyd). Extracting copper.
- 2613. Tavener & Jameson. Improved locking catches for window sashes and the like.
- 2620. Currie. Glazing clip.

- 2662. Sykes. Liquid jet relay.
- 2808. Gaisman. Liquid fuel regulator.

1917.

- 2990. Scott. Carbonating liquids.
- 3009. Burrows. Recovery of silver.
- 3044. Cash. Pipe bend.
- 3345. Universal Tobacco Machine Co., assignee of Graham H. Jackson and Charles P. Day, act. invs. Stripping tobacco leaves.
- 3450. Nightingall. Electric water heater.
- 3624. Refrigerator Car Equipment Co. (McCoy). Refrigerator car.
- 2888. The J. Geo. Leyner Engineering Works Co. (Ditson). Drill sharpening machine.
- 3915. Herreshoff. Treating slags.
- 3999. Sachse (Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekbank — Jebsen). Titanium pigments.
- 4002. Apted. Boot scraper.
- 4068. Kelcher. Wind shield.

NOTE.—THE SURNAMES IN PARENTHESES INDICATE ACTUAL INVENTORS (OR OTHER INTERESTED PARTIES) WHO ARE NOT APPLICANTS. ITALICS INDICATE THAT SOME AMENDMENT HAS BEEN MADE.

Further information of the inventions in the above Specifications is given in the following Illustrated Notes, and the full particulars of names, addresses, and occupation or calling of persons concerned in each application are stated in the Printed Specifications.

Printed copies of the above Specifications may now be ordered from the Government Printer, Melbourne, price One Shilling each, post free for cash or postal note; the copies will be posted from Melbourne two weeks after the date of this Journal, when copies will also be forwarded to the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart, for sale on demand.

A list of Australian and Foreign Offices and Libraries at which the Printed Specifications are placed for free public inspection is given in the first Journal of each quarter.

Illustrated Notes

TO THE FOREGOING ACCEPTED COMPLETE SPECIFICATIONS.

The class numbers refer to similar inventions comprised in the Classified Subject Matter Indexes.

1916.

600. 21 Mar. J. FLINT, N.S.W.

Class 47.5.

Artificial Rubber.

To form a substitute for the various grades of manufactured rubber, gelatine or glue, glycerine, glucose or treacle, water, rubber, diatomaceous earth or whitening, zinc white, sulphur, calcined magnesia, litharge, bichro-

mate of potash or formaldehyde, tannin, &c., and colouring matter, are combined in various proportions.

A hard product is produced by the addition of calamine, pontianac, or asphaltum, and a more resilient compound by the addition of coal-tar, pitch, &c., or of glycerine or gelatine.

No drawing, 5 claims.

1115. 27 May. J. E. CLIFFE, Queensland.

Class 33.1.

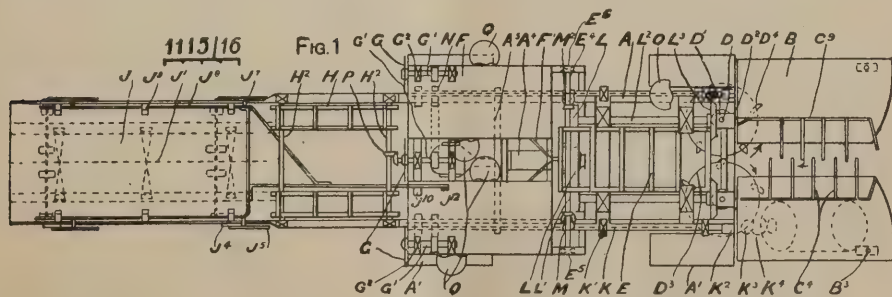
Cane Harvester.

A harvester in which the cane is cut and elevated to the topping saws on a raised platform, and is conveyed by travellers into an automatically discharging hopper.

The aprons **B**, which are shaped like a plough mouldboard to elevate the crop, are hinged to the frame **A** and are carried by castors **B**³. In each apron is a continuous travelling band upon which are pivoted drag-arms **C**⁴.

As the machine is moved forward, the

cane passes between the aprons, and the arms **C**⁴ press the stalks against the knives **D**⁴, which are adjustably mounted on rotary disks. The cane falls on the elevator **E** and is delivered past the directors **F**¹ to the table **F**. Operators then top the cane by means of the saws **G**, and place the stems on the conveyors **H** which delivers to the hopper **J**. When a predetermined weight accumulates the doors **J**¹ automatically open and discharge the cane.



20 figures, 12 claims.

Illustrated Notes—continued.

1311. 21 June. LAMSON STORE SERVICE COMPANY LIMITED, assignee of W. R. MILLER, act. inv., New South Wales.

Sec. 63A. Including cognate No. 1834/16.

Class 25.9.

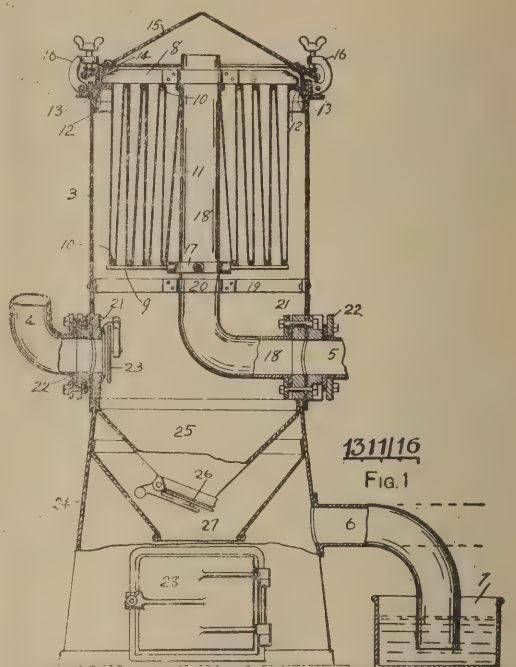
Dust Extractor.

To extract dust from the air of vacuum-cleaning systems the air is drawn through a filter-drum containing annular filter-bags. On reversing the direction of flow the dust is thrown into a valved collecting cone and the air passes through a water seal.

The drum 3 contains filter-bags 11 secured to rings 10 on the upper and lower radial bars 8 and 9. The dust-laden air is drawn past the gravity valve 23 of the pipe 4 by means of a fan connected with the pipe 5. A cover 15 is clamped over the drum 3 by means of a flange 14, rubber-ring 13, and clamps 16. The extension 18 of the pipe 5 is secured by the clamp 20 to the bar 19. The lower casing 24 contains a coned hopper 25 provided with a self-closing valve 26 through which the dust passes to the receiving-pan. To cleanse the filters air is introduced through the pipe 5 and escapes through the water-trap 7.

In a modification the pipe 6 is bent upwards and is connected to a dust-trap; an

annular receiving chamber leading to a vessel containing water and carrying an escape pipe which directs the air to a hood and exit passages.



3 figures, 12 claims.

1523. 15 July. S. JONES and J. D. MACDONALD, New South Wales.

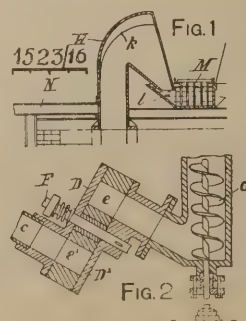
Classes 20.2; 20.6.

Coke Retorts.

To charge vertical coke retorts while preventing escape of gases the coal is fed by a revolving drum to an archimedeian screw at the base of the retort, the coke being discharged at the top through a water seal.

The feed pockets *c*, *c*¹ of the drum which revolves between the plates *D* deliver coal from the hopper *c* to the revolving screw *G*. The coke is forced under the hood *K* to the water seal and is removed by the rake

conveyor *M*, the gases escaping through the pipe *N* to the main.



2 figures, 4 claims.

Illustrated Notes—continued.

1790. 14 Aug. THE BRITISH UNITED SHOE MACHINERY COMPANY OF AUSTRALIA PROPRIETARY LIMITED, assignee of R. F. McFEELY, act. inv., Mass.; United States of America.

Class 44.53.

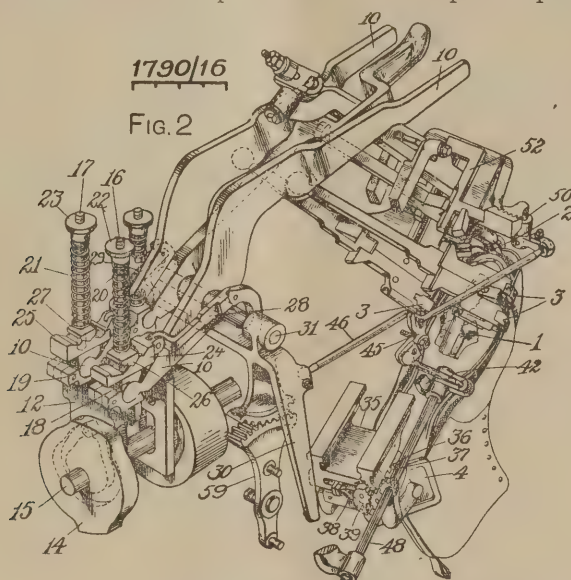
Pulling-over Machine.

To adjust a machine for dealing alternately with right and left shoes the toe-grippers and the heel-rest are mounted in lateral slides connected to a hand-lever which is also coupled by disengaging links to a power-driven slide for automatic operation.

The side grippers 3 are actuated by levers 10, which are operated by a slide 12 having a roll running in a cam-track in the block 14. Reversed wedges 24 and 25 are interposed

beneath the updraw springs and connected to a hand-lever 30 which operates the change-over rod 46. The rod is connected to the toe-grippers by a segmental gear 50, and to the laterally sliding heel-rest by a link 38, quadrant gear 39, and the link 42.

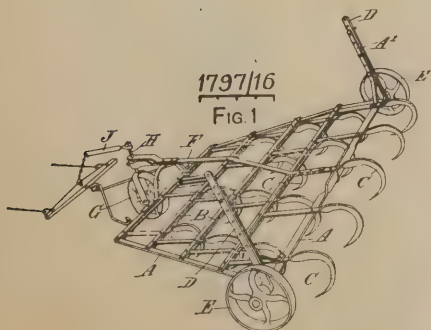
The machine is automatically reset after each operation by a quadrant lever 59 which has two studs adapted to engage with gaps in oppositely reciprocating arms connected to a power-operated slide.



1790/16

Fig. 2

5 figures, 8 claims.



1797/16

Fig. 1

2 figures, 4 claims.

1797. 15 Aug. G. MEPHAM, N.S.W.,

Class 31.2.

Cultivator.

An implement, for breaking up hard ground, in which hooked tines C are fixed on double transverse beams B, and a rear bar A having upturned arms A¹ which are adjustably bolted to the axle arms D.

A central beam F supports the steering-wheel G which is controlled by a tiller J connected to the swingletree.

Illustrated Notes—continued.

1791. 14 Aug. THE BRITISH UNITED SHOE MACHINERY COMPANY OF AUSTRALIA PROPRIETARY LIMITED, *assignee of J. SAYER, J. GOULDBOURN, and A. E. JERRAM, act. invs.,* England.

Class 44.57.

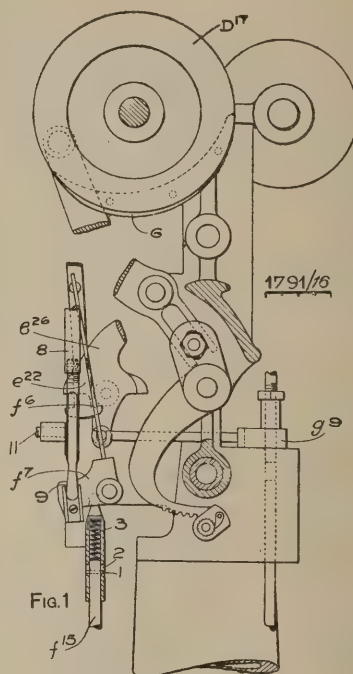
Fastener Inserting Machine.

A machine, for inserting screwed wire fasteners for reinforcing boot soles, in which a reciprocating rod can be actuated to throw a latch at each revolution of the main cam and cause the omission of alternate fasteners to increase the spacing.

The feed-mechanism is controlled by a stop g^9 which can be thrown out of operation by a switch e^{26} operated by a vertically reciprocating latch e^{22} . The latch is swung over to engage with either of the horns of the switch by a spring blade f^6 projecting upwards from a lever f^7 . The lever can be thrown over to set the stop g^9 for the normal insertion of two fasteners to each revolution of the cam D^{17} by operating the treadle-rod f^{15} .

When a cam on the shaft 11 is swung back the end of the rod 8, which is reciprocated by the edge cam 6, is drawn by a spring into engagement with a recess 9 in the lever f^7 . The rod then depresses the

end of the lever by compressing the spring 3 thus swinging the latch e^{22} over and operating the stop g^9 to cause the omission of one fastener at each revolution of the cam D^{17} .



2 figures, 8 claims.

1881. 23 Aug. C. S. BAULD, Victoria.

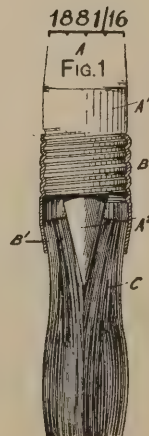
Classes 25.8; 79.4.

Paint Brush.

To attach the handle A of the brush and to allow for contraction of the bristles C, the handle A, provided with a conical point A^2 , is adapted to screw into a threaded socket B which has a tapering aperture B^1 .

In a modification several sockets are provided in line to attach a number of sections to the handle.

In a further modification for a flat brush the handle is screwed into a central ferrule and bears against a separate wedge. The wedge forces the bristles against the tapered sides which are prevented from spreading by means of pins.



4 figures, 3 claims.

Illustrated Notes—continued.

1939. 1 Sept. F. WALSH, *communicatee of* R. J. WOOD, *act. inv.*, Ohio, U.S.A.

Class 54.4.

Credit File.

To enable daily records to be inserted in a temporary file while simultaneously displaying the prior state of the same account in a locked permanent file, the corresponding files are housed in different compartments and are connected by draw-rods.

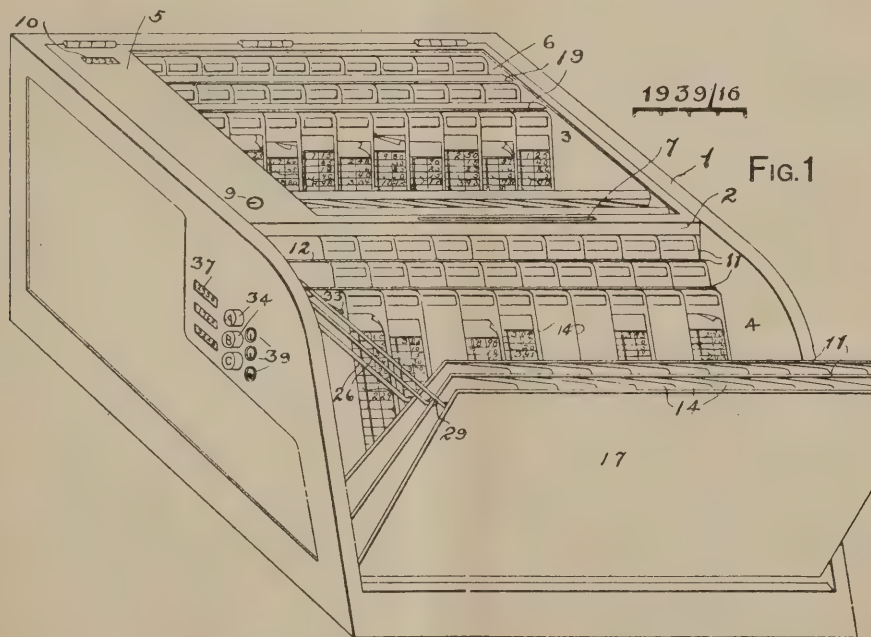
Each permanent file, consisting of a carrier 19 having overlapping leaves to grip the accounts, is mounted on trunnions within a locked and glazed compartment 3, and is connected by a rod 26 to a corresponding temporary file mounted in stepped relation on trunnions in the open compartment 4.

The daily credit slips are inserted under the relating annotated flexible plate 14 and show what accounts have been operated on. At the end of each day the amounts are transferred by a responsible officer to the permanent files which thus act as ledgers.

The cover 17 is held closed by a vertical bar which engages a stop 33 on the rod 29. The stop is released by any one of the press-buttons 34 one of which is assigned to each clerk and is kept locked during his absence, a recorder 37 showing the number of times each button is operated.

In modifications the compartments are arranged side by side and the files partly or wholly rotate or move laterally. The compartments may be arranged in tandem fashion and the files slide horizontally or rotate by means of a sprocket-chain, or on a shaft.

In further modifications the permanent files slide in a curved groove, the daily slips being retained by an exposed pointed file, and each file may be enclosed in a separate glazed compartment.



16 figures, 17 claims.

Illustrated Notes—continued.

1897. 24 Aug. G. SIMPSON, Victoria.

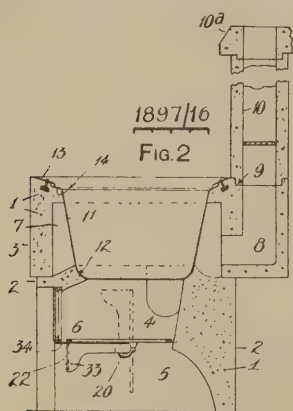
Class 24.5.

Domestic Boiler Frame.

To form a portable frame for coppers heated by wood or gas the body is constructed of reinforced concrete in two sections to the upper member of which is secured a detachable reinforced chimney.

The stack 10 is attached to the section 3 by means of a socket joint 9, and the copper rests on an annular seating 12. A copper or zinc flashing 13 is anchored to the frame by means of screws engaging metal bars in the body or side of the concrete, or directly to a reinforcing-bar, and is bent over the flanged rim 14. The fire-bars 6 are mounted on trunnions 20, one of which is hollow and is bent forward to terminate in a gas-burner 22.

In a modification jaws on the fire-bars engage with transverse rods in the concrete.



7 figures, 13 claims.

2594. 17 Nov. Marie V. GARIN (*née* BAILLY), assignee of M. PERREUR-LLOYD, *act. inv.*, France.

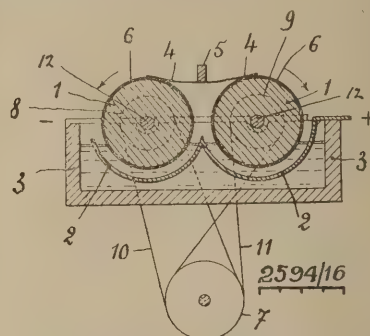
Class 07.6.

Extracting Copper.

To obtain a pure compact deposit of copper by preventing the inclusion of copper sulphide, the rotating cathode is supplied with an organic rubber which removes bubbles of hydrogen and supplies gelatinous

material from the solution to the deposit, sulphurous acid being used as a depolarizer.

Lead anodes 2 are placed in the bath 3 and the rotary cathodes 1 are covered with removable copper cylinders 6. The rubbers 4 may consist of soft fibrous wood, coconut fibre, or parchment, attached to a rod 5 or floating on the solution. Gelatine may be dissolved in the bath.



1 figure, 4 claims.

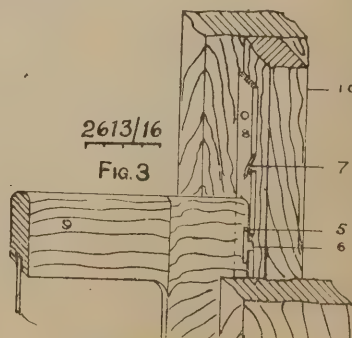
2613. 20 Nov. W. J. TAVENER and S. G. JAMESON, Queensland.

Class 78.71.

Window Catch.

A support for the windows of railway carriages, &c., in which plates 5, screwed to each side of the sash, are provided with lateral studs 6.

When the sash is pressed outwards the studs engage notches 7 in rack-bars attached to the styles 10.



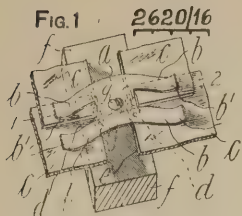
5 figures, 4 claims.

Illustrated Notes—continued.

2620. 21 Nov. T. E. CURRIE, Victoria.

Classes 81.4; 81.5.

Glazing Clip.



8 figures, 3 claims.

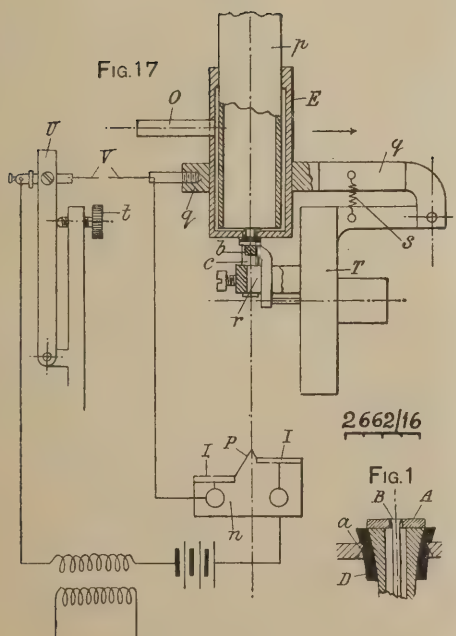
To facilitate the adjustment and renewal of panes of glass on hot-house frames, &c., a metal clip *a* is provided with spring fingers *b* adapted to press upon the edges of the sheets of glass *c*.

The clip is secured to the frame by a screw *g* and may be formed with tongues *d* which bear against the edges of the panes, while the underside of the fingers may be coated with a resilient material.

2662. 28 Nov. A. F. SYKES, B.Sc., A.M.I.E.E., England.

Class 05.2.

Liquid Jet Relay.



18 figures, 13 claims.

To magnify the vibrations of a receiver an orifice in a disk, resiliently supported as in 17,018/15, is rocked by the diaphragm to deflect the issuing jet which, when spread by a knife-edge or an inclined surface, forms a connecting film between two electrodes.

Liquid under pressure in the chamber *E* is forced through an orifice in a plate *B* which rests on a tube supported in a rubber collar *D*. The jet is rocked by a bar *b* resting on knife-edges on the posts *C* and connected to the diaphragm in the sound-box *T*.

The knife-edge *P* splits the jet to form a connexion between the electrodes *I*, the flow of the current being varied by lateral deflections of the jet. The general direction of the jet is automatically maintained by an adjustable thermostatic wire *V* in circuit with the electrodes and connected to the reservoir *E*.

In modifications the jet may be spread by impinging on an inclined plate, or it may be passed through a reduced orifice in a floating disk situated between the upper orifice and the knife-edge to amplify the original deflections.

Illustrated Notes—continued.

2808. 14 Dec. H. J. GAISMAN, New York, United States of America.

Class 66.5.

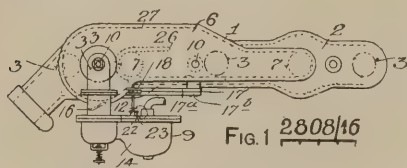
Liquid Fuel Regulator.

To reduce the richness of the mixture used in starting an explosion engine a thermostat, connected to the exhaust manifold, is arranged to reduce the fuel-jet orifice as the manifold becomes hot, and the length of the inlet passage can be varied to control the heating of the mixture.

The exhaust passage 2 and the inlet passages 6 are connected to the ports 3 and 7 respectively. The passage 6 has a baffle wall 26 near the circular end which is connected to the carburettor 9 by a branch 33. A sleeve valve can be rotated by a spindle 10 to vary the position of the inlet, and regulate the exposure of the incoming mixture to the hot walls of the circular end passage.

The needle valve 12 is controlled by a thermostat 17 connected to the bottom of the manifold to depress the valve and weaken the rich starting mixture as the manifold becomes hot. A stop 22 engages an adjustable abutment 23 to prevent the fuel being completely shut off in the event of excessive heating.

In modifications the valve needle 12 is smaller than the passage below it, or an additional passage is provided between the float and mixing chambers.



10 figures, 21 claims.

1917.

2990. 15 Jan. F. SCOTT, Queensland.

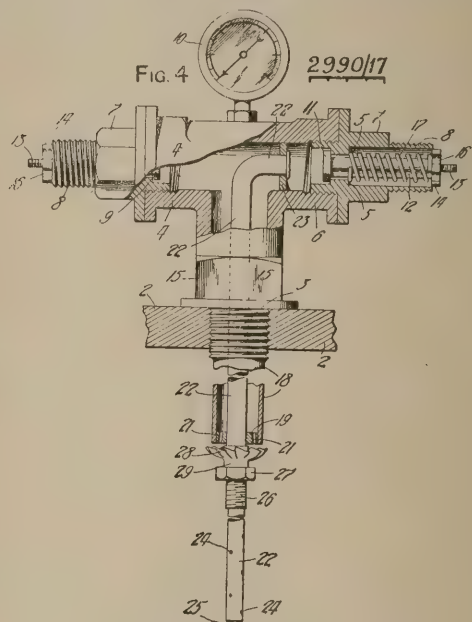
Class 27.3.

Carbonating Liquids.

To effect complete carbonation the water is atomized by rotary blades at the top of a mixing chamber into which the gas is discharged near the bottom by a perforated pipe.

The water valve 9 and the gas valve 11 are retained on their seats by springs 17

and nuts 16 which are slotted to allow the passage of the fluids. The water, entering the mixing-chamber 2 by the inclined passages 21 at the end of a short pipe 18, is atomized by striking the blades of a rotary cup 29. The liquid is agitated by the gas issuing from holes 24 in the pipe 22 which extends to the bottom of the chamber 2.



6 figures, 12 claims.

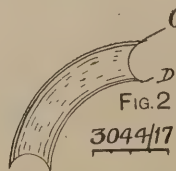
3044. 22 Jan. W. E. CASH, Victoria.

Classes 74.1; 73.2; 74.5.

Pipe Bend.

A sheet-metal pipe bend which is formed by cutting two or more flat sheets to the required radii and pressing or forging to the required curve. The longitudinal edges of one sheet are then joined to the corresponding edges of the other sheet by grooving, seaming, riveting, or brazing.

The edges may be turned over and brought together by means of a round or flat slit tube.



8 figures, 5 claims.

Illustrated Notes—continued.

3009. 16 Jan. L. P. BURROWS, Canada.

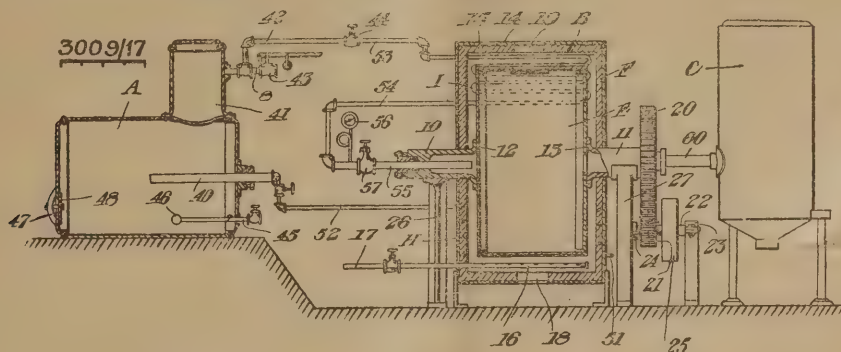
Classes 16.45; 08.1; 15.2.

Recovery of Silver.

To extract silver the ore is subjected in a gas heated revolving furnace to the reducing action of a gaseous reagent which is produced by expanding steam in a metal chamber and precipitating the water.

Steam under moderate pressure is allowed to expand suddenly within the chamber A. A part of the oxygen of the steam

will pass through the walls of this chamber to the surrounding atmosphere. The water is precipitated, and the expanded portion passes through the heating-coil I and is injected into the gas heated revolving chamber E where it reduces the silver. The powder formed is melted in a crucible furnace.



1 figure, 1 claim.

3450. 13 Mar. V. C. J. NIGHTINGALL, Victoria.

Classes 24.5; 06.7.

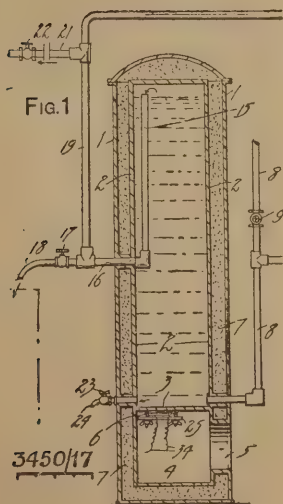
Electric Water Heater.

To dispense with the usual ball-float cistern, and to facilitate the removal of the heating elements, the water-chamber is fitted with an open pipe and is heated by elements housed in a separate compartment at the base.

The water cylinder 2 has a sawdust packing 7 and is fed from the main by a pipe 8. The hot water pipe 15 is connected to a pipe 19 which leads to an open outlet, and serves as an exhaust for excessive steam. Supply branches 18, 21 and a sludge outlet 24 are also provided.

The heating coils 6 are removably supported below the division plate 3 by a plate 25.

In modifications the heating element is vertically disposed within the cylinder, or is detachably mounted on the side of the casing to project into the cylinder.



6 figures, 4 claims.

Illustrated Notes—continued.

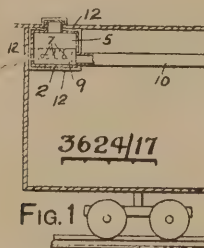
3624. 3 Apr. REFRIGERATOR CAR
EQUIPMENT Co., assignee of C. W. McCoy,
act. inv., Illinois, United States of America.

Class 90.9.

Refrigerator Car.

To secure uniform circulation of cooled air the rocking movements of a refrigerator car are utilized to promote constant circulation of the cooling fluid through pipes situated near the roof of the car.

Parallel pipes 10 connect tanks 2, which are arranged at each end of the car. Each tank is divided by a partition 5 which is fitted with non-return valves 7 to permit circulation in one direction only. The tanks are insulated to confine the cooling effect to the pipes 10 and 11.



5 figures, 6 claims.

3345. 24 Feb. UNIVERSAL TOBACCO
MACHINE Co., assignee of Graham H. JACKSON
and Charles P. DAY, act. invs., New York,
United States of America.

Class 33.3.

Stripping Tobacco Leaves.

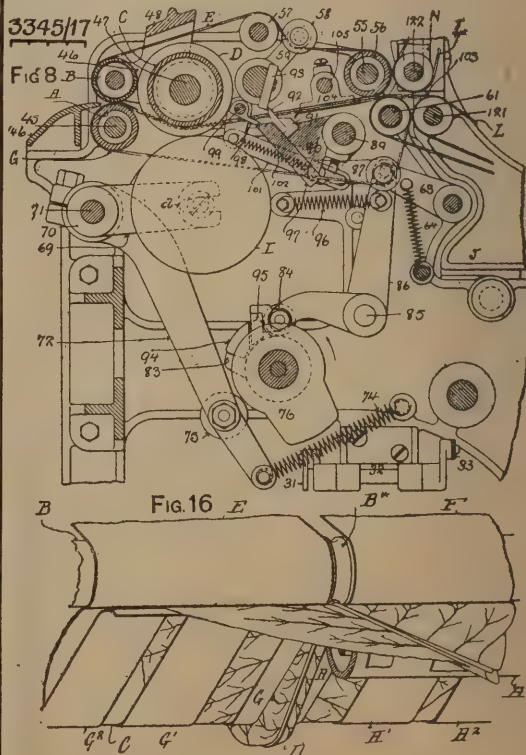
A stripping and booking machine in which the wing portions of the leaves are laterally stretched by belts, the stems are separated by a rotary cutter coacting with a central flange on the upper cylinder, and the stripped leaves are delivered to endless belts running around a booking-drum.

The leaf is drawn into the machine by the belts E and F on the upper roll B and the belts G and H on the lower roll A. The belts pass under the stripping-cylinder C and hold the leaf with its stem lying in a groove formed around the flange D which rotates above the cutting-disks I. The stretching of the leaf on each side of the

stem is controlled by the tensioning of the belts by the idle rollers 58 and rollers on the arms 63 which are drawn downwards by springs 64. The cutters I are carried by the horizontal arms of a pair of bell-crank levers 72, which are operated by cams 76 to move the cutters towards the leaf.

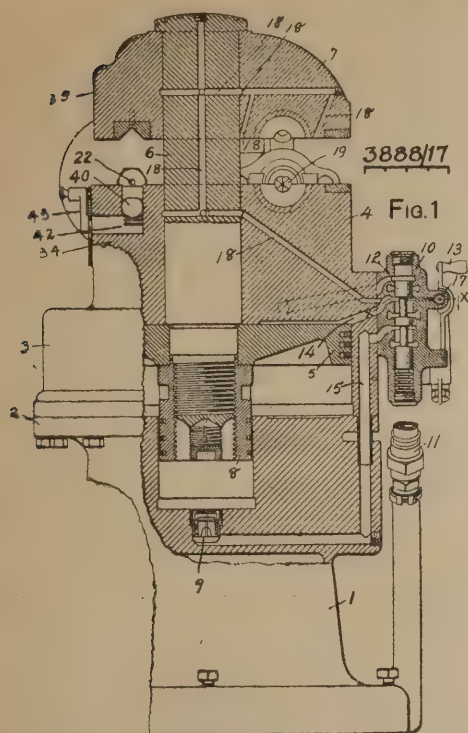
If only a part of the stem is to be divided a chopping knife 92 is operated by a bell-crank 86 rocked by a cam 83, and the detached stems are directed into a trough 97 by fingers 98. The stripped leaves are removed by plates 103 and endless belts L which pass around the booking-drum and rollers on the shafts 121 and 122 mounted in the side frames J. The shaft 122 is journaled on brackets N, which can be swung outwardly to permit the removal of the booked leaves.

In a modification the operative parts are carried by two supporting frames hinged together to allow ready access for cleaning, the upper frame carrying the belts E, the rotary cylinder C, and the transverse cutter-block, while the lower frame carries the remaining belts, the rotary cutters I, and the transverse cutter 92.



28 figures, 28 claims.

Illustrated Notes—continued.



12 figures, 11 claims.

3888. 7 May. THE J. GEO. LEYNER ENGINEERING WORKS COMPANY, assignee of J. DITSON, act. inv., Col., U.S.A.

Classes 71.2; 85.8; 71.3.

Drill Sharpening Machine.

A pneumatic machine for shaping drill points in which the working faces of the vice are freed from scale by air jets, and means are provided for cushioning the movable jaw and for pinning out hollow drills.

A cylinder 3 in the anvil-block 4 contains a piston 5 which retracts the upper vice-jaw 7 and is controlled by the valve 12. The descent of the jaw is retarded by the cushioning valve 9 beneath the small piston 8 which is utilized to raise the movable jaw. An auxiliary valve 17, operated by the main valve handle 13, admits air to passages 18 to blow the dirt from the working faces of the vice.

The drill is clamped between the jaws 4 and 7, and while hot, is subjected to blows from a pneumatically reciprocated forming dolly 19. The internal fin formed in a hollow drill may be removed by a pinning-tool 22 which is operated by a piston. The clamping-jaws 34 and 35 are provided with a centring wedge 40 adjusted by a pinion 42 operated by the handle 43.

3915. 9 May. J. B. HERRESHOFF, jun., New York, United States of America.

Class 15.5.

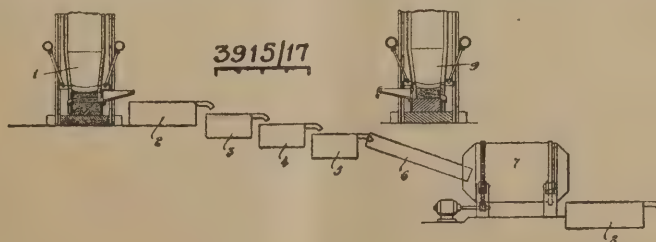
Treating Slags.

To recover values from slags the molten slag is run into a series of lower grade matte baths of decreasing metallic content.

Slag and matte containing 60% of copper are discharged from the smelter 1 into a settling tank 2. The slag overflows into a tank 3 containing 20% matte, and some of the copper, gold, and silver are removed from the slag, which overflows successively into the tanks 4 and 5 containing a 20% and

a 10% matte respectively. The slag is then mixed in a trough 6 with a 5% matte from the smelter 9, and is delivered to a rotary mixer 7 and discharged into a settler 8 from which the matte is drawn off to the tanks 3—5. The settling tanks and trough may be heated by solid fuel or oil.

Molten lead and molten pig-iron are used in place of the lower grade mattes in gold and silver smelting and tin smelting respectively.



1 figure, 7 claims.

Illustrated Notes—continued.

3999. 15 May. A. O. SACHSE, C.E.,
communicatee of DET NORSKE AKTIESELSKAB
 FOR ELEKTROKEMISK INDUSTRI, NORSK IN-
 DUSTRI-HYPOTEKBANK, *assignee of* G. JEBSEN,
act. inv., Norway.

Classes 79.2; 08.4.

Titanium Pigments.

To render precipitated titanium hydrate compounds suitable for use as white pigments, acidic impurities, such as combined sulphuric acid, remaining after washing, are neutralized by basic substances, such as soda, potash, or bicarbonate of soda, and the soluble salts are washed out, excess of the basic substance being removed by adding dilute acid and washing.

In a modification the precipitate, before or after treatment with the basic substance is treated with a soluble barium or lead salt and washed.

No drawing, 6 claims.

4002. 16 May. F. APTED, Victoria.

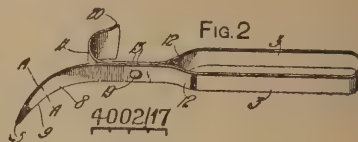
Class 25.9.

Boot Scraper.

To remove mud from boots a scraper, cut from a metal blank, is bent to form a handle 3. One of the free ends is curved and tapered to a rounded point 5 and the other is curved and provided with a broad cutting edge 20. The tapered part 8 has its lower edge 9 bevelled.

In a modification the parts 3 of the handle may be pressed together and have wooden blocks attached by rivets.

In further modifications the free end 11 may be dispensed with or is bent back in the form of a roll.



7 figures, 13 claims.

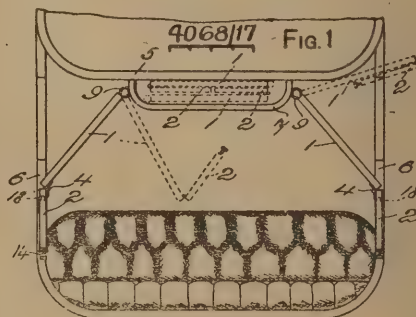
4068. 22 May. L. KELCHER, N.Z.

Class 93.2.

Wind Shield.

To protect passengers on the rear seat of a motor-car from eddying air currents, side wind shields are attached to the back of the front seat and to the sides of the rear seat.

The frames 1 and 2 of the glass or celluloid shields are hinged together and are secured to the back of the front seat 5 by means of a vertical rod and slotted socket 9. The rear members 2 are detachably secured to the side walls by a bolt 18 and a pin 14 which enters a slot in a rear bracket. The frames are folded and placed in a compartment 7 when not in use.



4 figures, 1 claim.

Commonwealth Specifications.

The following Specifications are now on sale :—

1904-10.

1 to 20,337, Vols. 1 to 102, complete with title pages, &c.

1911-15.

1 to 7599, Vols. 103 to 140, complete with title pages, &c.

7600 to 7799, Vol. 141, incomplete.

7800 to 8599, Vols. 142 to 145, complete with title pages, &c.

8600 to 14,445, and all subsequent accepted Specifications.

The following Specifications, acceptance of which was advertised in *Official Journal* of the 14th August, 1917, are now printed and on sale :—

1916.

1690. Menck, Ballantyne, & Sheehan.

1691. Fischer & Whitehead.

1720. Harris.

1731. Preston.

1856. Munn.

1951. Balsillie.

1952. Balsillie.

2031. Woore & Mellor.

2274. Smith.

2345. Pritchard.

2472. Automatic Electric Co. (Newforth).

2826. Trève.

1917.

3040. Mould.

3169. Stockdill & Irwin.

3347. Hamilton.

3534. Kenney.

3636. American Seedtape Co. Incorp. (Gray, Thompson, & Rhoads).

3658. Bennett.

3673. Société Du Carburateur Zénith.

3748. Cooper & Thomson.

3893. Turri. (Cockburn & Macnicoll).

4014. Stern-Andersen Co. (Westling & Andersen).

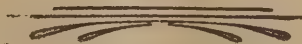
Further particulars will be found in the Illustrated Notes, pages 773 to 781 of Vol. 26.

A list of Patent Offices and Libraries at which Printed Specifications are placed for *free* public inspection is given with the first list of each quarter.

Complete sets of Printed Specifications may be obtained from the Government Printer, Melbourne, at 4d. per copy delivered over the counter. Specifications relating to one Group of manufacture, in order as issued, or such of the Specifications (in one Group) as may be selected from those already published, until 80 copies have been supplied, may be obtained on depositing £2. Parcels of 30 Specifications may be purchased at £1. Postage should be added to cheques if parcels are desired to be forwarded by mail. Single copies of Specifications, 1s. per copy, post free.

Printed Specifications are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Applications for Letters Patent for the period 1904 to 1910 were numbered from 1 to 20,337; for the period 1911 to 1915 from 1 to 18,302; a new series of numbers was commenced on the 1st January, 1916. To avoid confusion when purchasing Specifications, the **number**, **year**, and **name** of applicant for Letters Patent should be quoted.



Letters Patent Sealed.

Applications for enlargement of the time for payment of the renewal fee may be made on Form P.

The page and year quoted in last column refer to the Journal in which the notice of acceptance of Complete Specification was published.

Names of actual inventors, communicators, assignors, &c., who are not grantees, are added in parentheses after the name of the grantee.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1915. <i>16th August, 1917.</i>				
2798	24 Dec.	G. Ebrill & T. Kiersey, B.A., B.A.I., T.C.D.	Separation of casein, &c., from creamery sewage	387/17
2866	29 Dec.	H. B. Rand	Headlights and reflectors	387/17
1916. <i>17th August, 1917.</i>				
819	18 Apr.	C. L. Stokes	Feeding oil to engines	368/17
881	29 Apr.	E. F. Tregaskis	Making boxes, &c.	387/17
1256	14 June	A. H. Stockhausen	Fuel for engines	387/17
1439	5 July	J. Ross	Hand machine for sawing, plane- ing, &c.	387/17
1778	14 Aug.	E. K. H. Lundberg	Melting furnaces	387/17
1917.				
2927	3 Jan.	Baldwin & Walker Ltd. (Bessie A. Bowles)	Knitting patterns	387/17
1916. <i>18th August, 1917.</i>				
818	18 Apr.	H. Yates & T. G. Colqu- houn	Ash dumper for chain grate stokers	350/17
<i>20th August, 1917.</i>				
844	20 Apr.	The Wireless Hinge Mfg. Co. Ltd. (G. W. Berry)	Hinging lids of sheet metal recep- tacles	320/17
864	27 Apr.	W. Murphy	Destroying rabbits, &c.	972/16
1347	26 June	R. A. Lee	Heel lift magazine	387/17
1390	30 June	H. H. Blade	Killing vermin	387/17
1447	6 July	W. W. Wiltshire	Heating air	419/17
2036	11 Sept.	H. Symes	Automatic telephones	320/17
2880	22 Dec.	J. W. Billings	Film attachment and synchroniz- ing mechanism	387/17
<i>21st August, 1917.</i>				
148	24 Jan.	H. Symes	Telephones, &c.	387/17
837	20 Apr.	J. F. H. Howarth	Carburettors	387/17
926	4 May	The British United Shoe Machinery Co. of Aus- tralia Pty. Ltd. (F. B. Keall, A. E. Jerram, & W. T. B. Roberts)	Lasting machines, &c.	419/17
930	4 May	G. E. Farrar	Electric lamp holders	419/17
932	5 May	Marconi's Wireless Tele- graph Co. Ltd. (C. S. Franklin)	Controlling speed	419/17
1915.				
1072	25 May	A. M. Low	Stoppering bottles	419/17
1916.				
1077	24 May	A. W. G. & H. J. V. Martens	Air gas	295/17
1159	31 May	W. H. Watson	Eave gutter brackets	387/17

Letters Patent Sealed—continued.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1916. <i>21st August, 1917—continued.</i>				
1180	2 June	R. H. Commons	Fluid pressure reciprocation engines.	419/17
1185	2 June	A. Sutton & W. F. Shepherd	Domestic incubators	419/17
1250	14 June	The British Westinghouse Electric and Mfg. Co. Ltd. (A. E. L. Scanes)	Pumps or compressors	387/17
1289	19 June	R. Barrett	Concrete mixing machines	387/17
1934	30 Aug.	G. P. Hughes & J. L. Armstrong	Interlocking roofing tile	212/17
2377	20 Oct.	Plymel 1914 Ltd. (A. E. Kellam)	Destruction of white ants	387/17
2651	27 Nov.	Annie V. McQuade	Medicinal preparation	387/17
1917.				
3084	26 Jan.	R. G. Ferguson	Cigarette case	419/17
3233	14 Feb.	C. Auger	Artificial hands	387/17
3459	13 Mar.	A. Griffith (M. J. Peppard)	Hair curlers	387/17
3470	14 Mar.	W. T. Blaney	Rotary sweeping brush	419/17

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

(Names in parentheses indicate actual inventors, &c., who are not applicants.)

No.	Date of Application.	Name of Applicant.	Abbreviated Title.	Page and Year
1916.				
103.	18 Jan.	G. H. Broughton	Tyre clasps	1252/16

Assignments Registered.**1911.****1913.**

3192. "Improvements in flumes."—
Assignment of whole interest *by* THE
HESS FLUME COMPANY *to*
CALIFORNIA CORRUGATED CULVERT COM-
PANY. Registered 17th Aug., 1917.

10,182. "Improvements in chaff bag-
gers."—
Assignment of a six-eighth share or
interest *by* Percy William Pook *to*
Archibald James Andrew IRWIN and John
Phillip GELLING. Registered 21st Aug.,
1917.

1916.

1810. "Improvements in or relating to
hydro metallurgy of copper."

Assignment of whole interest *by* Edward
Ray WEIDLEIN *to*

METALS RESEARCH COMPANY. Regis-
tered 15th Aug., 1917.

Renewal Fees Paid.*(Names in parentheses indicate original grantees.)*

1909.			
No.	Name.	Abbreviated Title.	Paid up to—
15,913	Barnett, M.	Wood pulp sheeting ...	... 29th Sept., 1923
1910.			
18,218	Marks, H. J., Dobson, C., & Sands, R. (Marks, H. J.)	Hanging windows, &c. ...	... 15th June, 1924
18,645	Taylor, I. F., & The Automatic Fire Escape Co. Ltd.	Crane ... ..	... 18th July, 1924
19,025	Hanlon, M. I. M., Eland, W., Smith, A. E., Brenchley, A., Riley, C. E., Lucas, L., & Creswell, W. H. (Hanlon, M. I. M., & Eland, W.)	Saucepan ... ..	... 16th Aug., 1924
19,033	The New Austral Rubber Protector & Tyre Mfg. Synd. Pty. Ltd. (Willson, W. J., & Moody, S.)	Tyre cover ... ..	... 17th Aug., 1924
19,110	Eckersley, A.	Carbonator ... ..	... 24th Aug., 1924
19,174	Bleach, W. H.	Drafting instrument ...	... 31st Aug., 1924

Patents Void through Non-payment of Renewal Fees.*(Names in parentheses indicate original grantees.)*

1909.			
No.	Name.	Abbreviated Title.	Patent Ceased.
15,443	Hickie, D., Brentini, P., Manzetti, G., & Brentini, P., sen.	Automatic signalling ...	... 17th Aug., 1915
15,452	Laschinger, E. J.	Stamp battery ... ..	... 17th Aug., 1916
15,453	Gee, C. A.	Advertising apparatus ...	... 17th Aug., 1916
15,460	Benn, W. A., & Stokes, E. S....	Preserving fish ... ..	... 17th Aug., 1916
15,465	Dash, R. B. (Wright, R.) ...	Charcoal kiln ... ..	... 17th Aug., 1916
15,466	Quin, S. H., & Higgs, W. G....	Alcohol manufacture ...	... 17th Aug., 1916
15,468	Campbell, H. R.	Dray tail-board ... ..	... 17th Aug., 1916
15,471	Anne of Lowenstein Wertheim	Ship bunks, &c. ... ..	... 17th Aug., 1916
15,474	Lindström, K. I.	Milking machine ... ..	... 18th Aug., 1916
15,487	Gleghorn, W.	Tip-dray ... ..	... 18th Aug., 1916
15,491	Butler, W. J.	Sewing machine ... ..	... 19th Aug., 1916
15,493	Christian, W.	Anti-corrosive compound ..	... 19th Aug., 1916
15,497	Webster, J.	Tin closure .. ...	... 20th Aug., 1916
15,501	Jones, I., & Rhodes, J.	Manufacturing gas ... ..	... 20th Aug., 1916
15,503	Temple, E., Rosenthal, C., & Wilhelm, A. H. (Carter, J., & Temple, E.)	Automatic steam regulator	... 21st Aug., 1916
15,507	Grossman, F.	Pruning implement 21st Aug., 1916

GEORGE TOWNSEND,

Commissioner of Patents.

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